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QR код





Short Form Catalog 2013

High Power Semiconductors for Industrial Applications





The standard
work for IGBTs

Second Edition

Reference book IGBT Modules Technologies, Driver and Application

The aim of this book is to give the reader an understanding of the specific fundamentals of IGBT in conjunction with their application. This book will provide students of power electronics with valuable information about the main contemporary power semiconductors and the applications in which they are used, while development engineers targeting power electronic converters will find all the essentials of selecting, dimensioning and applying IGBT modules laid out clearly and comprehensively.

IGBT Modules – Technologies, Driver and Applications

Andreas Volke (Author), Michael Hornkamp (Author), Jost Wendt (Translator)

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For further information please visit our website:

www.infineon.com/igbt-book



High power semiconductors for your industrial applications

What sets our products apart is based on a deep understanding of our customer's current and future application needs. The core values of quality, reliability, longevity and innovation are therefore an essential part of any new development and product improvement. This applies to our chip design, as well as our module development and manufacturing.

Accordingly, we offer a broad portfolio of power semiconductor products for industrial applications in the power range from 0.5 kW up to several MW. The applications range from traditional industrial drives and complete systems for renewable energies (wind and solar), transportation (traction, construction and utility vehicles), power supplies, welding applications, to medical equipment and Major Home Appliances.

With the short form catalogue (Kuka) 2013, we offer an overview of this range including many details. Through continuous dialogue with our customers we have once again increased the effectiveness this year.

The blue application pictures you'll find inside show the range of applications where the related products are used for. In the electronic version of this catalogue, at www.infineon.com/highpower, you can click on Short-links to find even more information useful for your application

We would welcome your information to assist in improving this catalogue. To do so, please send us your suggestions via the "Contact" form on www.infineon.com/highpower



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Further data sheets are available on request: IGBT-Modules, Thyristor-/Diode-Modules, Fast Thyristors, Thyristors for Phase Control, Power Rectifier Diodes, Snubber and Freewheeling Diodes Actual, extensive data can be obtained in PDF-format from our internet address:

www.infineon.com/powersemiconductors



Legend



Drives



CAV



Telecom



Wind



UPS



Home appliance



Solar



Welding



Server



Induction



SMPS



PC Power



Traction

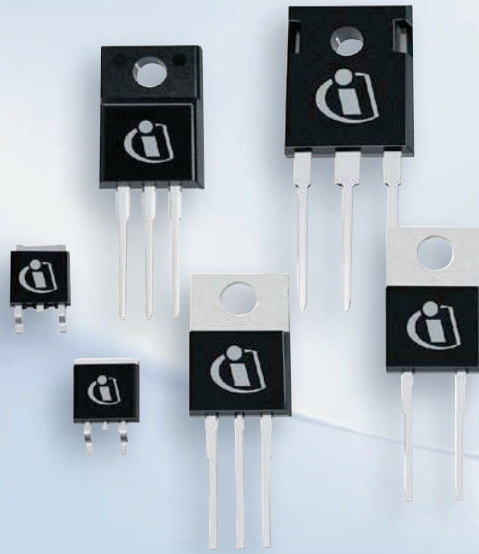


Aircon



AC/DC

Discrete IGBTs



We are famous for IGBT technology leadership and offer a comprehensive portfolio for the general purpose inverters, solar inverters, UPS, Induction heating, Microwave Oven, Rice cookers, Welding and SMPS segments.

Benefits:

- IGBTs offer much higher current density than MOSFET power switches due to bipolar action
- Insulated gate allows bipolar performance with MOSFET gate drive performance
- High efficiency = smaller heat sink which leads to lower overall system cost
- 175°C $T_{j(max)}$ leading to higher reliability

Soft Switching/Resonant and Hard Switching Topologies are Comprehensively Supported

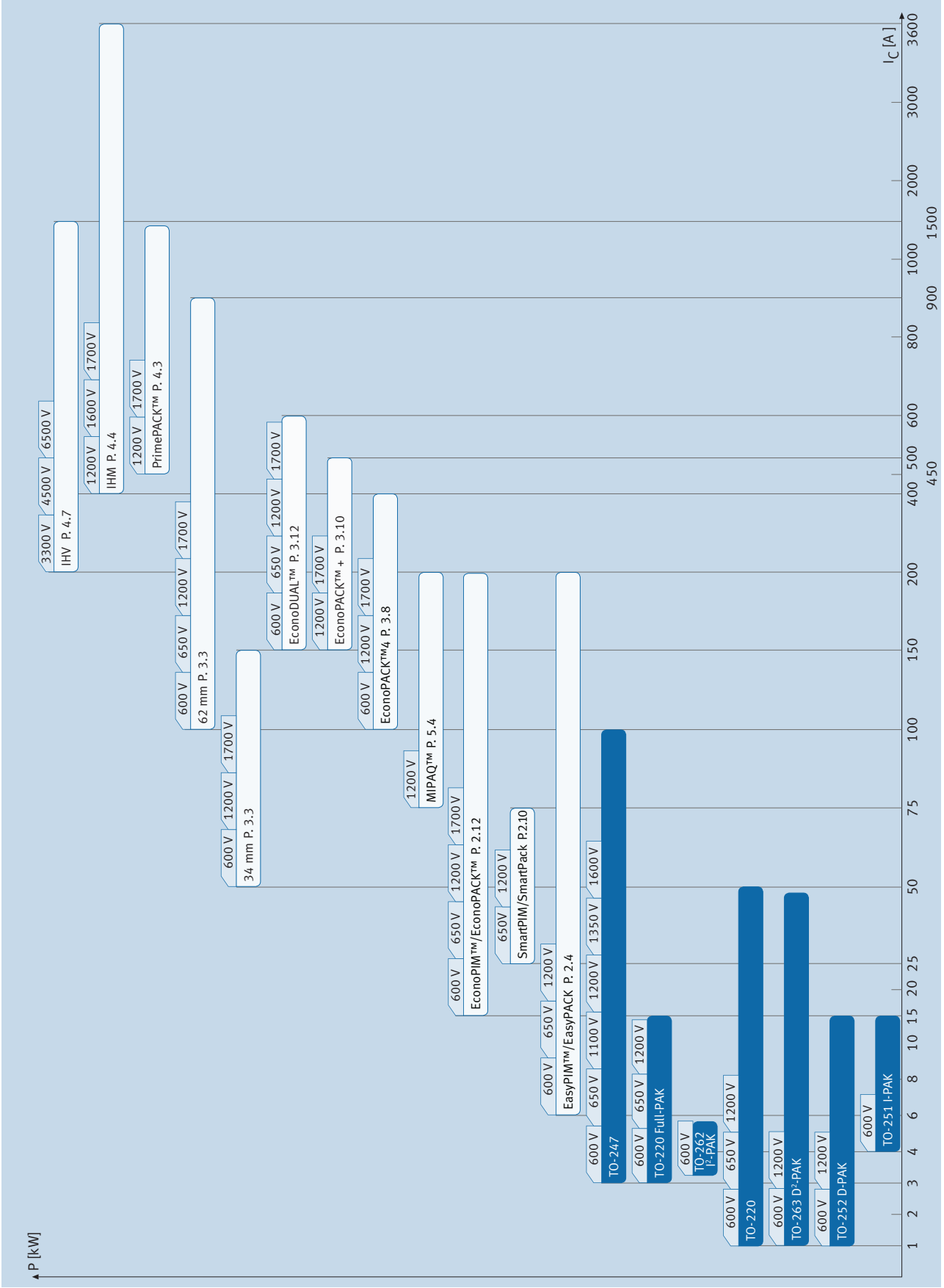
Infineon has a huge portfolio addressing the following two switching techniques:

Soft Switching/resonant

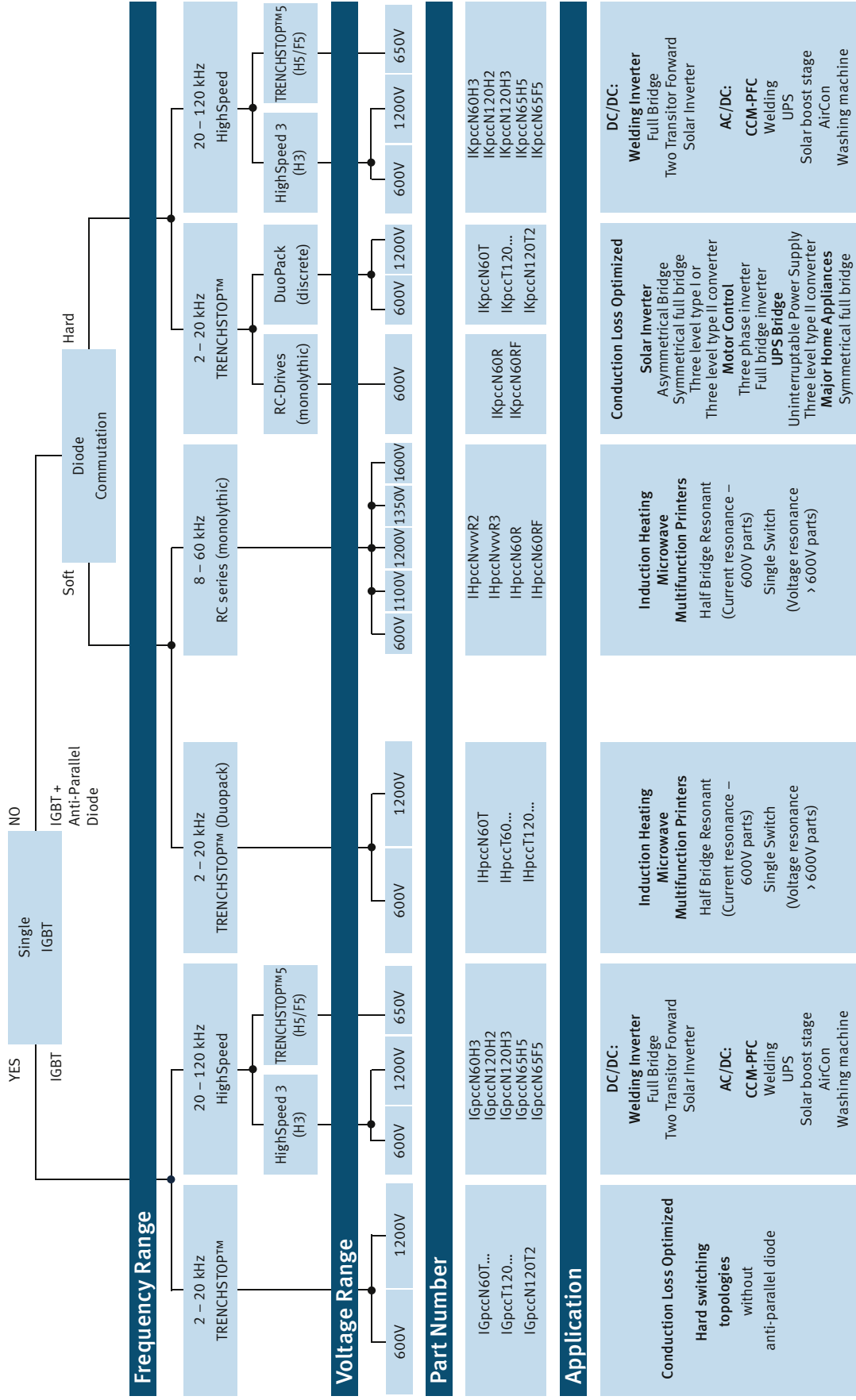
- The world famous IHW series IGBTs – #1 best selling family worldwide
- Available in 600V, 1100V, 1200V, 1350V and 1600V voltage classes
- Best-in-Class efficiency and robustness

Hard Switching

- 600V RC-D IGBTs
- 600V RC-Drives Fast
- 600V TRENCHSTOP™ DuoPack IGBTs
- 600V/1200V HighSpeed 3
- 1200V TRENCHSTOP™ 2
- 650V TRENCHSTOP™ 5



IGBT Selection Tree



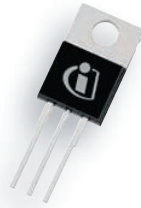
Discrete IGBTs

TRENCHSTOP™ 5 Product Spectrum – First Wave



Continuous
Current I_C
 $T_C=100^\circ\text{C}$

TO-220



TO-220FP
Full-Pak




TO-247



Single IGBT	40A	IGP40N65F5 / H5		IGW40N65F5 / H5
	50A			IGW50N65F5 / H5
DuoPack	8A	IKP08N65F5 / H5	IKA08N65F5 / H5	
	15A	IKP15N65F5 / H5	IKA15N65F5 / H5	
	40A	IKP40N65F5 / H5		IKW40N65F5 / H5
	50A			IKW50N65F5 / H5

Induction Cooking Series Portfolio

600V, 1100V, 1200V, 1350V and 1600V

Revolutionary Application Specific – Resonant Converters and Induction Cooking Series IGBTs 

Continuous
Current I_C
 $T_C=100^\circ\text{C}$

TO-247

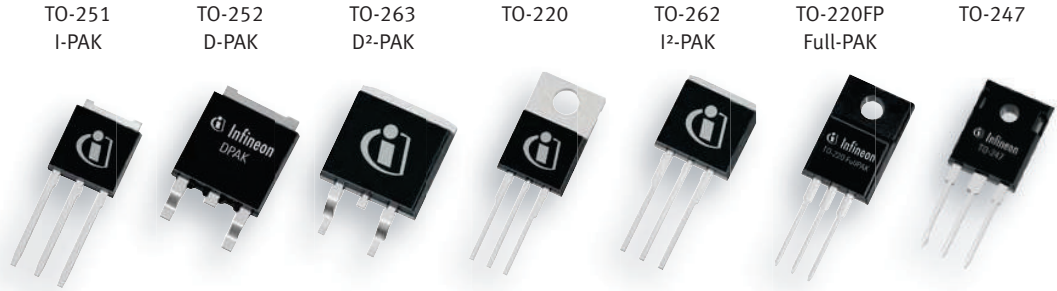


IGBT and Diode	I_C	600V	1100V	1200V	1350V	1600V
	15A				IHW15N120R3	
20A		IKW20N60H3		IHW20N120R3	IHW20N135R3	
25A				IHW25N120R2		
30A		IHW30N60T IKW30N60H3	IHW30N110R3	IHW30N120R3	IHW30N135R3	IHW30N160R2
40A		IHW40T60 IHW40N60R IHW40N60RF		IHW40T120 IHW40N120R3	IHW40N135R3	
50A		IKW50N60H3				
60A		IKW60N60H3				
75A		IKW75N60H3				

TRENCHSTOP™ and RC-Drives IGBT 600 V Product Family

TRENCHSTOP™, RC-Drives and RC-Drives Fast IGBTs 

Continuous Current I_C
 $T_C=100^\circ\text{C}$



Single IGBT	6A		IGD06N60T		IGP06N60T		
	10A			IGB10N60T	IGP10N60T		
	15A			IGB15N60T	IGP15N60T		
	30A			IGB30N60T			IGW30N60T
	50A			IGB50N60T	IGP50N60T		IGW50N60T
	75A						IGW75N60T

IGBT and Diode	3A		IKD03N60RF				
	4A		IKD04N60R IKD04N60RF		IKP04N60T	IKI04N60T	
	6A		IKD06N60R IKD06N60RF	IKB06N60T	IKP06N60T		IKA06N60T
	10A		IKD10N60R IKD10N60RF	IKB10N60T	IKP10N60T		IKA10N60T
	15A		IKD15N60R IKD15N60RF	IKB15N60T	IKP15N60T		IKA15N60T
	20A			IKB20N60T	IKP20N60T		IKW20N60T
	30A						IKW30N60T
	50A						IKW50N60T
	75A						IKW75N60T

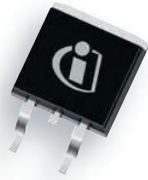
HighSpeed 3 - Single IGBT & DuoPack™ 600V / 1200V Product family

High Speed 3 - Single IGBT & DuoPack™

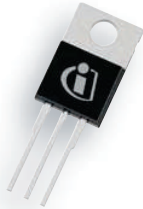


Continuous Current I_C
 $T_C=100^\circ\text{C}$

TO-263
D²-PAK



TO-220



TO-220FP
Full-PAK



TO-247



TO-247



Single IGBT	15A					IGW15N120H3
	20A	IGB20N60H3	IGP20N60H3		IGW20N60H3	
	25A					IGW25N120H3
	30A	IGB30N60H3	IGP30N60H3	IGA30N60H3	IGW30N60H3	
	40A				IGW40N60H3	IGW40N120H3
	50A				IGW50N60H3	
	60A				IGW60N60H3	
	75A				IGW75N60H3	
	100A				IGW100N60H3	
IGBT and Diode	20A	IKB20N60H3	IKP20N60H3		IKW20N60H3	IKW15N120H3
	30A				IKW30N60H3	IKW25N120H3
	60A				IKW40N60H3	IKW40N120H3
	50A				IKW50N60H3	
	60A				IKW60N60H3	
	75A				IKW75N60H3	

TRENCHSTOP IGBT and DuoPack™ 1200V Product Family

TO-247




Continuous
Current I_C
 $T_C=100^\circ\text{C}$



	TRENCHSTOP™		TRENCHSTOP™2
	Single IGBT	8A	IGW08T120
	15A	IGW15T120	
	25A	IGW25T120	
	40A	IGW40T120	
	60A	IGW60T120	

DuoPack™	8A	IKW08T120	
	15A	IKW15T120	IKW15N120T2
	25A	IKW25T120	IKW25N120T2
	40A	IKW40T120	IKW40N120T2

HighSpeed 2 IGBT and DuoPack™ 1200V Product Family

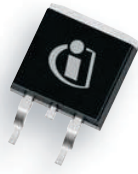
HighSpeed 2 IGBT & DuoPack™ 

Continuous Current I_C
 $T_C=100^\circ\text{C}$

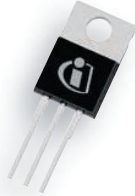
TO-252
D-PAK



TO-263
D²-PAK



TO-220



TO-220FP
Full-PAK



TO-247



Single IGBT	1A	IGD01N120H2	IGB01N120H2	IGP01N120H2		
	3A		IGB03N120H2	IGP03N120H2	IGA03N120H2	IGW03N120H2
DuoPack™	3A		IKB03N120H2	IKP03N120H2	IKA03N120H2	IKW03N120H2

Discrete Emitter Controlled Diodes

Product Family 600 V & 1200 V

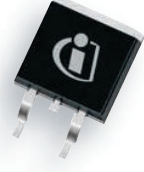


Continuous
Current I_C
 $T_C=100^\circ\text{C}$

TO-252
D-PAK



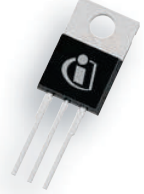
TO-263
D²-PAK



TO-220
Real 2pin



TO-220 FullPAK
Real 2pin



TO-247



600 V	3 A	IDD03E60				
	6 A	IDD06E60		IDP06E60		
	9 A	IDD09E60	IDB09E60	IDP09E60		
	15 A	IDD15E60	IDB15E60	IDP15E60		
	23 A		IDB23E60	IDP23E60		
	30 A		IDB30E60	IDP30E60	IDV30E60C	IDW30E60
	45 A		IDB45E60	IDP45E60		
	75 A					IDW75E60
	100 A					IDW100E60
1200 V	4 A			IDP04E120		
	9 A			IDP09E120		
	12 A		IDB12E120	IDP12E120		
	18 A		IDB18E120	IDP18E120		
	30 A		IDB30E120	IDP30E120		

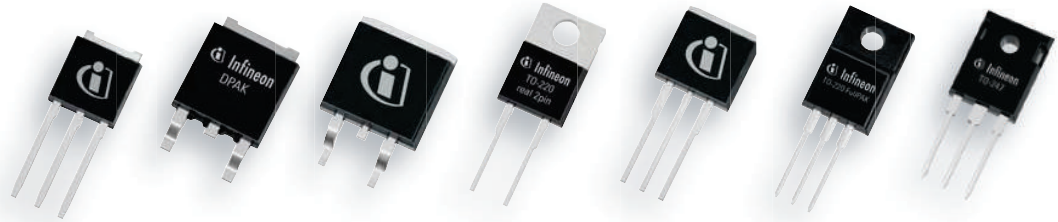
Rapid Diode Families 1st Wave Release

650V Product Family

Rapid Diode Families 1st Wave Release

Continuous Current I_C
 $T_C=100^\circ\text{C}$

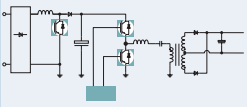
TO-251 I-PAK TO-252 D-PAK TO-263 D²-PAK TO-220 real 2-leg TO-262 TO-220 Full-PAK real 2-leg TO-247



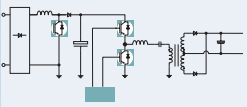
Rapid 1	8A				IDP08E65D1			
	15A				IDP15E65D1			
	30A							IDW30E65D1
	40A							IDW40E65D1

Rapid 2	8A				IDP08E65D2		IDV08E65D2	
	15A				IDP15E65D2		IDV15E65D2	IDW15E65D2
	40				IDP40E65D2			IDW40E65D2

IGBT Discretos HighSpeed 2

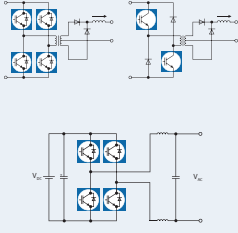
1200V												
Product		V _{CE} [V]	I _C [A]	I _{Cpuls} [A]	V _{CEsat} [V]	E _{on} [mJ]	E _{off} [mJ]	I _F [A]	V _F [V]	Q _{rr} [nC]	I _{rrm} [A]	Package
	IGA03N120H2	1200	3	9	2,2	0,140	0,150		n/a			PG-T0220-3
	IGB01N120H2	1200	1,3	3,5	2,2	0,080	0,060		n/a			PG-T0263-3
	IGB03N120H2	1200	3,9	9,9	2,2	0,140	0,150		n/a			PG-T0263-3
	IGD01N120H2	1200	1,3	3,5	2,2	0,080	0,060		n/a			PG-T0252-3
	IGP01N120H2	1200	1,3	3,5	2,2	0,100	0,100		n/a			PG-T0220-3
	IGP03N120H2	1200	3,9	9,9	2,2	0,140	0,150		n/a			PG-T0220-3
	IGW03N120H2	1200	3,9	9,9	2,2	0,200	0,300		n/a			PG-T0247-3

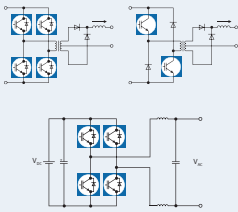
IGBT Discretos HighSpeed 2 DuoPack

1200V												
Product		V _{CE} [V]	I _C [A]	I _{Cpuls} [A]	V _{CEsat} [V]	E _{on} [mJ]	E _{off} [mJ]	I _F [A]	V _F [V]	Q _{rr} [nC]	I _{rrm} [A]	Package
	IKA03N120H2	1200	3	9	2,2	0,140	0,150	3,9	1,55	230	9,3	PG-T0220-3
	IKB03N120H2	1200	3,9	9,9	2,2	0,140	0,150	3,9	2	230	12 A	PG-T0263-3
	IKP03N120H2	1200	3,9	9,9	2,2	0,140	0,150	3,9	2	230	12 A	PG-T0220-3
	IKW03N120H2	1200	3,9	9,9	2,2	0,140	0,150	3,9	2	230	12 A	PG-T0247-3

IGBT Discretes

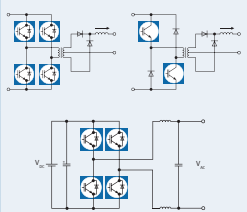
HighSpeed 3

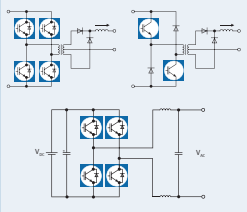
600V												
Product		V _{CE} [V]	I _C [A]	I _{Cpuls} [A]	V _{CEsat} [V]	E _{on} [mJ]	E _{off} [mJ]	I _F [A]	V _F [V]	Q _{rr} [nC]	I _{rrm} [A]	Package
	IGA30N60H3	600	11	120	1,95	0,730	0,440		n/a			PG-T0220-3 FP
	IGB20N60H3	600	20	80	1,95	0,450	0,240		n/a			PG-T0263-3
	IGB30N60H3	600	30	120	1,95	0,730	0,440		n/a			PG-T0263-3
	IGP20N60H3	600	20	80	1,95	0,450	0,240		n/a			PG-T0220-3
	IGP30N60H3	600	30	120	1,95	0,730	0,440		n/a			PG-T0220-3
	IGW20N60H3	600	20	80	1,95	0,560	0,240		n/a			PG-T0247-3
	IGW30N60H3	600	30	120	1,95	0,940	0,440		n/a			PG-T0247-3
	IGW40N60H3	600	40	160	1,95	1,100	0,580		n/a			PG-T0247-3
	IGW50N60H3	600	50	200	1,85	1,450	0,910		n/a			PG-T0247-3
	IGW60N60H3	600	60	180	1,85	2,100	1,130		n/a			PG-T0247-3
	IGW75N60H3	600	75	225	1,85	3,000	1,700		n/a			PG-T0247-3
	IGW100N60H3	600	120	300	1,85	3,700	1,900		n/a			PG-T0247-3

1200V												
Product		V _{CE} [V]	I _C [A]	I _{Cpuls} [A]	V _{CEsat} [V]	E _{on} [mJ]	E _{off} [mJ]	I _F [A]	V _F [V]	Q _{rr} [nC]	I _{rrm} [A]	Package
	IGW15N120H3	1200	15	60	2,05	1,100	0,450		n/a			PG-T0247-3
	IGW25N120H3	1200	25	100	2,05	1,800	0,850		n/a			PG-T0247-3
	IGW40N120H3	1200	40	160	2,05	3,200	1,200		n/a			PG-T0247-3

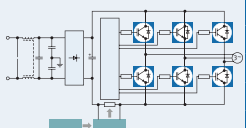
IGBT Discretes

HighSpeed 3 DuoPack

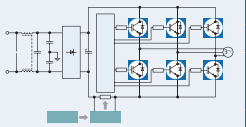
600 V												
Product	V _{CE} [V]	I _C [A]	I _{Cpuls} [A]	V _{CEsat} [V]	E _{on} [mJ]	E _{off} [mJ]	I _F [A]	V _F [V]	Q _{rr} [nC]	I _{rrm} [A]	Package	
	IKB20N60H3	600	20	80	1,95	0,45	0,24	10	1,65	390	11	PG-T0263-3
	IKP20N60H3	600	20	80	1,95	0,45	0,24	10	1,65	390	11	PG-T0220-3
	IKW20N60H3	600	20	80	1,95	0,56	0,24	10	1,65	390	11	PG-T0247-3
	IKW30N60H3	600	30	120	1,95	0,94	0,44	15	1,65	320	12	PG-T0247-3
	IKW40N60H3	600	40	160	1,95	1,1	0,58	20	1,65	810	13,6	PG-T0247-3
	IKW50N60H3	600	50	200	1,85	1,45	0,91	30	1,65	880	16,9	PG-T0247-3
	IKW60N60H3	600	60	180	1,85	2,1	1,13	30	1,65	1200	13	PG-T0247-3
	IKW75N60H3	600	75	225	1,85	3	1,7	50	1,65	1800	19	PG-T0247-3

1200 V												
Product	V _{CE} [V]	I _C [A]	I _{Cpuls} [A]	V _{CEsat} [V]	E _{on} [mJ]	E _{off} [mJ]	I _F [A]	V _F [V]	Q _{rr} [nC]	I _{rrm} [A]	Package	
	IKW15N120H3	1200	15	60	2,05	1,1	0,45	7,5	1,8	800	7,7	PG-T0247-3
	IKW25N120H3	1200	25	100	2,05	1,8	0,85	12,5	1,8	1200	10,4	PG-T0247-3
	IKW40N120H3	1200	40	160	2,05	3,2	1,2	20	1,8	1900	12,8	PG-T0247-3

IGBT Discretetes RC Drives Fast Series DuoPack


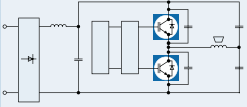
600V												
Product	V _{CE} [V]	I _C [A]	I _{Cpuls} [A]	V _{CEsat} [V]	E _{on} [mJ]	E _{off} [mJ]	I _F [A]	V _F [V]	Q _{rr} [nC]	I _{rrm} [A]	Package	
	IKD03N60RF	600	2,5	7,5	2,2	0,05	0,04	2,5	2,1	60	3,8	PG-TO252-3
	IKD04N60RF	600	4	12	2,2	0,06	0,05	4	2,1	90	4,6	PG-TO252-3
	IKD06N60RF	600	6	18	2,2	0,09	0,09	6	2,1	160	7,4	PG-TO252-3
	IKD10N60RF	600	10	30	2,2	0,19	0,16	10	2,1	270	9,1	PG-TO252-3
	IKD15N60RF	600	15	45	2,2	0,27	0,25	15	2,1	420	13,2	PG-TO252-3


IGBT Discretetes RC Drives Series DuoPack


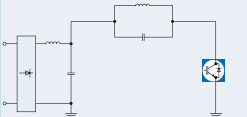
600V												
Product	V _{CE} [V]	I _C [A]	I _{Cpuls} [A]	V _{CEsat} [V]	E _{on} [mJ]	E _{off} [mJ]	I _F [A]	V _F [V]	Q _{rr} [nC]	I _{rrm} [A]	Package	
	IKD04N60R	600	4	12	1,65	0,09	0,15	4	1,7	220	7,6	PG-TO252-3
	IKD06N60R	600	6	18	1,65	0,11	0,22	6	1,7	370	12	PG-TO252-3
	IKD10N60R	600	10	30	1,65	0,21	0,38	10	1,7	560	20,3	PG-TO252-3
	IKD15N60R	600	15	45	1,65	0,37	0,53	15	1,7	760	20,5	PG-TO252-3
	IKU15N60R	600	15	45	1,65	0,37	0,53	15	1,7	760	20,5	PG-TO251-3

IGBT Discretes

RC-H Soft & Hard Switching Series

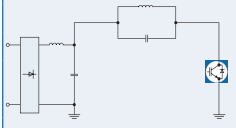
600V 												
Product	V _{CE} [V]	I _C [A]	I _{Cpuls} [A]	V _{CEsat} [V]	E _{on} [mJ]	E _{off} [mJ]	I _F [A]	V _F [V]	Q _{rr} [nC]	I _{rrm} [A]	Package	
	RC-H Fast Soft Switching Series IHW40N60RF	600	40	120	1,85	d.o.r.	0,56	40	1,75	data on request	PG-T0247-3	
	RC-H Soft Switching Series IHW40N60R	600	40	120	1,65	d.o.r.	0,75	40	1,65	data on request	PG-T0247-3	

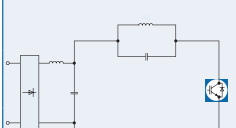
1100V 												
Product	V _{CE} [V]	I _C [A]	I _{Cpuls} [A]	V _{CEsat} [V]	E _{on} [mJ]	E _{off} [mJ]	I _F [A]	V _F [V]	Q _{rr} [nC]	I _{rrm} [A]	Package	
RC-H3 Soft Switching Series IHW30N110R3	1100	30	90	1,55	d.o.r.	1,15	30	1,35	data on request		PG-T0247-3	

1200V 												
Product	V _{CE} [V]	I _C [A]	I _{Cpuls} [A]	V _{CEsat} [V]	E _{on} [mJ]	E _{off} [mJ]	I _F [A]	V _F [V]	Q _{rr} [nC]	I _{rrm} [A]	Package	
	RC-H2 Soft Switching Series IHW25N120R2	1200	25	75	1,6	d.o.r.	1,59	25	1,5	data on request	PG-T0247-3	
	RC-H3 Soft Switching Series IHW15N120R3	1200	15	45	1,48	d.o.r.	0,7	15	1,55	data on request	PG-T0247-3	
	IHW20N120R3	1200	20	60	1,48	d.o.r.	0,95	20	1,55	data on request	PG-T0247-3	
	IHW30N120R3	1200	30	90	1,55	d.o.r.	1,47	30	1,6	data on request	PG-T0247-3	
	IHW40N120R3	1200	40	120	1,55	d.o.r.	2,02	40	1,6	data on request	PG-T0247-3	

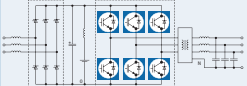
IGBT Discretes

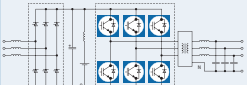
RC-H Soft Switching & Fast Soft Switching Series

1350V												
Product	V _{CE} [V]	I _C [A]	I _{Cpuls} [A]	V _{CEsat} [V]	E _{on} [mJ]	E _{off} [mJ]	I _F [A]	V _F [V]	Q _{rr} [nC]	I _{rrm} [A]	Package	
	RC-H3 Soft Switching Series											
	IHW20N135R3	1350	20	60	1,6	d.o.r.	1,3	20	1,6	data on request	PG-TO247-3	
	IHW30N135R3	1350	30	90	1,65	d.o.r.	1,93	30	1,65	data on request	PG-TO247-3	
	IHW40N135R3	1350	40	120	1,65	d.o.r.	2,5	40	1,65	data on request	PG-TO247-3	

1600V												
Product	V _{CE} [V]	I _C [A]	I _{Cpuls} [A]	V _{CEsat} [V]	E _{on} [mJ]	E _{off} [mJ]	I _F [A]	V _F [V]	Q _{rr} [nC]	I _{rrm} [A]	Package	
	RC-H2 Soft Switching Series											
	IHW30N160R2	1600	30	90	1,8	d.o.r.	2,53	30	1,65	data on request	PG-TO247-3	




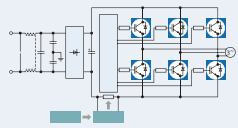
IGBT Discretos
TRENCHSTOP™




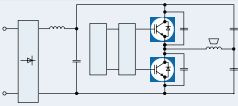
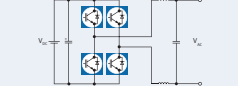
600V												
Product		V _{CE} [V]	I _C [A]	I _{Cpuls} [A]	V _{CEsat} [V]	E _{on} [mJ]	E _{off} [mJ]	I _F [A]	V _F [V]	Q _{rr} [nC]	I _{rrm} [A]	Package
	IGB10N60T	600	10	30	1,5	0,16	0,27	n/a				PG-T0263-3
	IGB15N60T	600	15	45	1,5	0,22	0,35	n/a				PG-T0263-3
	IGB30N60T	600	30	90	1,5	0,69	0,77	n/a				PG-T0263-3
	IGB50N60T	600	50	150	1,5	1,2	1,4	n/a				PG-T0263-3
	IGD06N60T	600	6	18	1,5	0,09	0,11	n/a				PG-T0252-3
	IGP06N60T	600	6	18	1,5	0,09	0,11	n/a				PG-T0220-3
	IGP10N60T	600	10	30	1,5	0,16	0,27	n/a				PG-T0220-3
	IGP15N60T	600	15	45	1,5	0,22	0,35	n/a				PG-T0220-3
	IGP50N60T	600	50	150	1,5	1,2	1,4	n/a				PG-T0220-3
	IGW30N60T	600	30	90	1,5	0,69	0,77	n/a				PG-T0247-3
	IGW50N60T	600	50	150	1,5	1,2	1,4	n/a				PG-T0247-3
	IGW75N60T	600	75	225	1,5	2	2,5	n/a				PG-T0247-3
	IHW30N60T	600	30	90	1,5	n/a	0,77	13	1,1	n/a		PG-T0247-3
	IHW40T60	600	40	120	1,55	n/a	0,92	30	1,65	920	16,3	PG-T0247-3




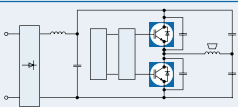
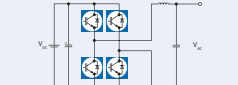
1200V												
Product		V _{CE} [V]	I _C [A]	I _{Cpuls} [A]	V _{CEsat} [V]	E _{on} [mJ]	E _{off} [mJ]	I _F [A]	V _F [V]	Q _{rr} [nC]	I _{rrm} [A]	Package
	IGW08T120	1200	8	24	1,7	0,67	0,7	n/a				PG-T0247-3
	IGW15T120	1200	15	45	1,7	1,3	1,4	n/a				PG-T0247-3
	IGW25T120	1200	25	75	1,7	2	2,2	n/a				PG-T0247-3
	IGW40T120	1200	40	105	1,7	3,3	3,2	n/a				PG-T0247-3
	IGW60T120	1200	60	150	1,7	4,3	5,2	n/a				PG-T0247-3
	IKW08T120	1200	8	24	1,7	0,67	0,7	8	1,7	1000	13	PG-T0247-3
	IKW15T120	1200	15	45	1,7	1,3	1,4	15	1,7	1900	17	PG-T0247-3
	IKW25T120	1200	25	75	1,7	2	2,2	25	1,7	2300	21	PG-T0247-3
	IKW40T120	1200	40	105	1,7	3,3	3,2	40	1,75	3800	28	PG-T0247-3

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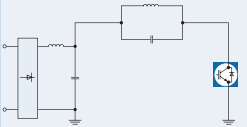
TRENCHSTOP™ Duo Pack

600V												
  												
Product	V _{CE} [V]	I _C [A]	I _{Cpuls} [A]	V _{CEsat} [V]	E _{on} [mJ]	E _{off} [mJ]	I _F [A]	V _F [V]	Q _{rr} [nC]	I _{rrm} [A]	Package	
	IKA06N60T	600	6,2	18	1,5	0,09	0,11	6,5	1,6	190	5,3	PG-TO220-3
	IKA10N60T	600	7,2	30	1,5	0,16	0,27	7,4	1,6	380	10	PG-TO220-3
	IKA15N60T	600	8,9	45	1,5	0,22	0,35	9	1,65	240	10,4	PG-TO220-3
	IKB06N60T	600	6	18	1,5	0,09	0,11	6	1,6	190	5,3	PG-TO263-3
	IKB10N60T	600	10	30	1,5	0,16	0,27	10	1,6	380	10	PG-TO263-3
	IKB15N60T	600	15	45	1,5	0,22	0,35	15	1,65	240	10,4	PG-TO263-3
	IKB20N60T	600	20	60	1,5	0,31	0,46	20	1,65	310	13,3	PG-TO263-3
	IKI04N60T	600	4	12	1,5	0,061	0,084	4	1,65	79	5,3	PG-TO262-3
	IKP04N60T	600	4	12	1,5	0,061	0,084	4	1,65	79	5,3	PG-TO220-3
	IKP06N60T	600	6	18	1,5	0,09	0,11	6	1,6	190	5,3	PG-TO220-3
	IKP10N60T	600	10	30	1,5	0,16	0,27	10	1,6	380	10	PG-TO220-3
	IKP15N60T	600	15	45	1,5	0,22	0,35	15	1,65	240	10,4	PG-TO220-3
	IKP20N60T	600	20	60	1,5	0,31	0,46	20	1,65	310	13,3	PG-TO220-3
	IKW20N60T	600	20	60	1,5	0,31	0,46	20	1,65	310	13,3	PG-TO247-3
	IKW30N60T	600	30	90	1,5	0,69	0,77	30	1,65	920	16,3	PG-TO247-3
	IKW50N60T	600	50	150	1,5	1,2	1,4	50	1,65	1800	27,7	PG-TO247-3
IKW75N60T	600	75	225	1,5	2	2,5	75	1,65	2400	38,5	PG-TO247-3	

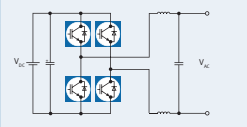
900V												
  												
Product	V _{CE} [V]	I _C [A]	I _{Cpuls} [A]	V _{CEsat} [V]	E _{on} [mJ]	E _{off} [mJ]	I _F [A]	V _F [V]	Q _{rr} [nC]	I _{rrm} [A]	Package	
 	IHW30N90T	900	30	90	1,5	d.o.r.	0,77	13	1,1	data on request	PG-TO247-3	

1000V												
  												
Product	V _{CE} [V]	I _C [A]	I _{Cpuls} [A]	V _{CEsat} [V]	E _{on} [mJ]	E _{off} [mJ]	I _F [A]	V _F [V]	Q _{rr} [nC]	I _{rrm} [A]	Package	
 	IHW30N100T	1000	30	90	1,55	d.o.r.	1,6	12	1,1	data on request	PG-TO247-3	
	IKW30N100T	1000	30	90	1,55	2,2	1,6	30	1,65	2100	21	PG-TO247-3

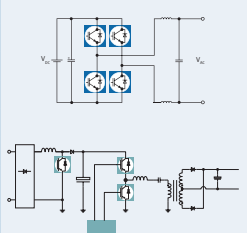
IGBT Discrettes TRENCHSTOP™ DuoPack

1200V												
Product	V _{CE} [V]	I _C [A]	I _{Cpuls} [A]	V _{CEsat} [V]	E _{on} [mJ]	E _{off} [mJ]	I _F [A]	V _F [V]	Q _{rr} [nC]	I _{rrm} [A]	Package	
	IHW15T120	1200	15	45	1,7	1,3	1,4	13	1,7	950	13,3	PG-T0247-3
	IHW20T120	1200	20	60	1,7	1,8	1,5	13	1,7	950	13,3	PG-T0247-3
	IHW40T120	1200	40	105	1,8	3,3	3,2	19,8	1,65	1880	20,2	PG-T0247-3

IGBT Discrettes TRENCHSTOP™ F5

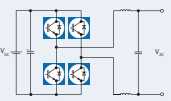
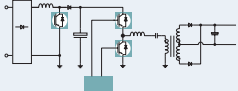
650V												
Product	V _{CE} [V]	I _C [A]	I _{Cpuls} [A]	V _{CEsat} [V]	E _{on} [mJ]	E _{off} [mJ]	I _F [A]	V _F [V]	Q _{rr} [nC]	I _{rrm} [A]	Package	
	IGP40N60F5	650	46	120	1,6	0,36	0,14	n/a			PG-T0220-3	
	IGW40N60F5	650	46	120	1,6	0,36	0,14	n/a			PG-T0247-3	
	IGW50N60F5	650	56	150	1,6	0,49	0,16	n/a			PG-T0247-3	

IGBT Discrettes TRENCHSTOP™ F5 DuoPack

650V												
Product	V _{CE} [V]	I _C [A]	I _{Cpuls} [A]	V _{CEsat} [V]	E _{on} [mJ]	E _{off} [mJ]	I _F [A]	V _F [V]	Q _{rr} [nC]	I _{rrm} [A]	Package	
	IKA08N65F5	650	6,8	24	1,6	0,07	0,02	7,3	1,45	140	6,6	PG-T0220-3 FP
	IKA15N65F5	650	8,5	45	1,6	0,13	0,04	7,3	1,45	100	8	PG-T0220-3 FP
	IKP08N65F5	650	11	24	1,6	0,07	0,02	12	1,45	140	6,6	PG-T0220-3
	IKP15N65F5	650	18	45	1,6	0,13	0,04	12	1,45	100	8	PG-T0220-3
	IKW40N60F5	650	46	120	1,6	0,36	0,14	21	1,45	420	12,4	PG-T0247-3
	IKW50N60F5	650	56	150	1,6	0,49	0,16	27	1,45	550	16,5	PG-T0247-3

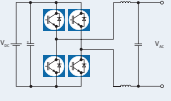
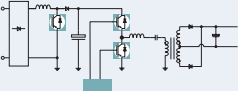
IGBT Discretes

TRENCHSTOP™ H5

650V												
Product	V _{CE} [V]	I _C [A]	I _{Cpuls} [A]	V _{CEsat} [V]	E _{on} [mJ]	E _{off} [mJ]	I _F [A]	V _F [V]	Q _{rr} [nC]	I _{rrm} [A]	Package	
	IGP40N65H5	650	46	120	1,65	0,35	0,16	n/a			PG-T0220-3	
	IGW40N65H5	650	46	120	1,65	0,35	0,16	n/a			PG-T0247-3	
	IGW50N65H5	650	56	150	1,65	0,52	0,18	n/a			PG-T0247-3	
												


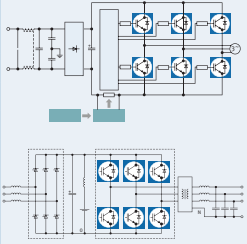
IGBT Discretes

TRENCHSTOP™ H5 DuoPack

650V												
Product	V _{CE} [V]	I _C [A]	I _{Cpuls} [A]	V _{CEsat} [V]	E _{on} [mJ]	E _{off} [mJ]	I _F [A]	V _F [V]	Q _{rr} [nC]	I _{rrm} [A]	Package	
	IKA08N65H5	650	6,8	24	1,65	0,07	0,02	7,3	1,45	130	6,8	PG-T0220-3
	IKA15N65H5	650	8,5	45	1,65	0,12	0,05	7,3	1,45	200	6,7	PG-T0220-3
	IKP08N65H5	650	11	24	1,65	0,07	0,02	12	1,45	130	6,8	PG-T0220-3
	IKP15N65H5	650	18	45	1,65	0,12	0,05	12	1,45	200	6,7	PG-T0220-3
	IKW40N60H5	650	46	120	1,65	0,35	0,16	21	1,45	410	12,5	PG-T0247-3
	IKW50N60H5	650	56	150	1,65	0,52	0,18	27	1,45	570	16,7	PG-T0247-3
												

IGBT Discretes

TRENCHSTOP™2 DuoPack

1200V 												
Product	V _{CE} [V]	I _C [A]	I _{Cpuls} [A]	V _{CEsat} [V]	E _{on} [mJ]	E _{off} [mJ]	I _F [A]	V _F [V]	Q _{rr} [nC]	I _{rrm} [A]	Package	
	IKW15N120T2	1200	15	60	1,7	1,25	0,8	15	1,75	1300	10	PG-TO247-3
	IKW25N120T2	1200	25	100	1,7	1,55	1,35	25	1,65	2050	20	PG-TO247-3
	IKW40N120T2	1200	40	160	1,75	3,2	2,05	40	1,75	3300	23	PG-TO247-3

Links

Application Notes, Product Briefs, Flyers and Brochures	Type	Redirects
HighSpeed 3 600V	Application Note	http://www.infineon.com/highspeed3-600V-appnote
HighSpeed 3 1200V	Application Note	http://www.infineon.com/highspeed3-1200V-appnote
TRENCHSTOP™ IGBT for Soft Switching - 3rd Generation Reverse Conducting IGBT	Application Note	http://www.infineon.com/trenchstop-rc-appnote
TRENCHSTOP™5 650V	Application Note	http://www.infineon.com/trenchstop5-appnote
RC Drives and RC Drives Fast	Application Note	http://www.infineon.com/rc-drives-fast-appnote
IGBT Selection Guide 2012	IGBT Selection Guide 2012	http://www.infineon.com/igbt-selection-guide
HighSpeed 3 1200V 600V	Product Brief	http://www.infineon.com/highspeed3-product-brief
TRENCHSTOP™ IGBT for Soft Switching - 3rd Generation Reverse Conducting IGBT	Product Brief	http://www.infineon.com/trenchstop-rc-product-brief
TrenchStop™ IGBT Technology for Induction Cooking	Product Brief	http://www.infineon.com/trenchstop-induction-cooking-appnote
TRENCHSTOP™5	Product Brief	http://www.infineon.com/trenchstop5-product-brief
RC Drives and RC Drives Fast	Product Brief	http://www.infineon.com/rc-drives-fast-product-brief
TRENCHSTOP™5	Selection Guide	http://www.infineon.com/trenchstop5-selection-guide
Induction Cooking Portfolio	Video	http://www.infineon.com/induction-heating-video
RC Drives Portfolio Extension	Video	http://www.infineon.com/rc-drives-video
TRENCHSTOP™5	Video	http://www.infineon.com/highspeed5-video
TRENCHSTOP™5 Portfolio and Summary	Video	http://www.infineon.com/highspeed5-portfolio-video
TRENCHSTOP™5 Target Application	Video	http://www.infineon.com/highspeed5-targetapplications-video
HighSpeed 3 1200V 600V	Webpage	http://www.infineon.com/highspeed3
TRENCHSTOP™ IGBT for Hard Switching	Webpage	http://www.infineon.com/trenchstop-hard-switching
TRENCHSTOP™ IGBT for Soft Switching - 3rd Generation Reverse Conducting IGBT	Webpage	http://www.infineon.com/trenchstop-reverse-conducting
TRENCHSTOP™5	Webpage	http://www.infineon.com/trenchstop5
RC Drives and RC Drives Fast	Webpage	http://www.infineon.com/rc-drives-fast
Application Notes for all packages & technologies	Application Note Collection	http://www.infineon.com/igbt-modules-application-notes
Product Briefs for all packages & technologies	Product Brief Collection	http://www.infineon.com/igbt-modules-product-briefs

Low Power Modules



Our Easy, Smart and Econo modules are designed for cost effective and compact inverters as well as a simplified and reliable mounting. The Easy and Econo product families are available with the well known solder pins or the new state-of-the-art PressFIT connections.

The new Smart modules combine the PressFIT technology with a sophisticated housing concept. Its new duplex-frame reaches a very high level of reliability during the mounting process and operation. Here the PressFIT pin is connected to the PCB, the PCB is stabilized and the module is mounted on the heat sink in one single step.

The Easy family with different configurations like EasyPIM™, EasyPACK and EasyDUAL covers a full product scope in the power range from nominal current 6A up to 200A at 600V/1200V. These modules without base plates are equipped with screw clamps for a new, fast, reliable and low cost mounting concept. With reduced height from 17mm to 12mm and injected mounting screw clamps, the new Easy1B and Easy2B housings are the optimal choice.

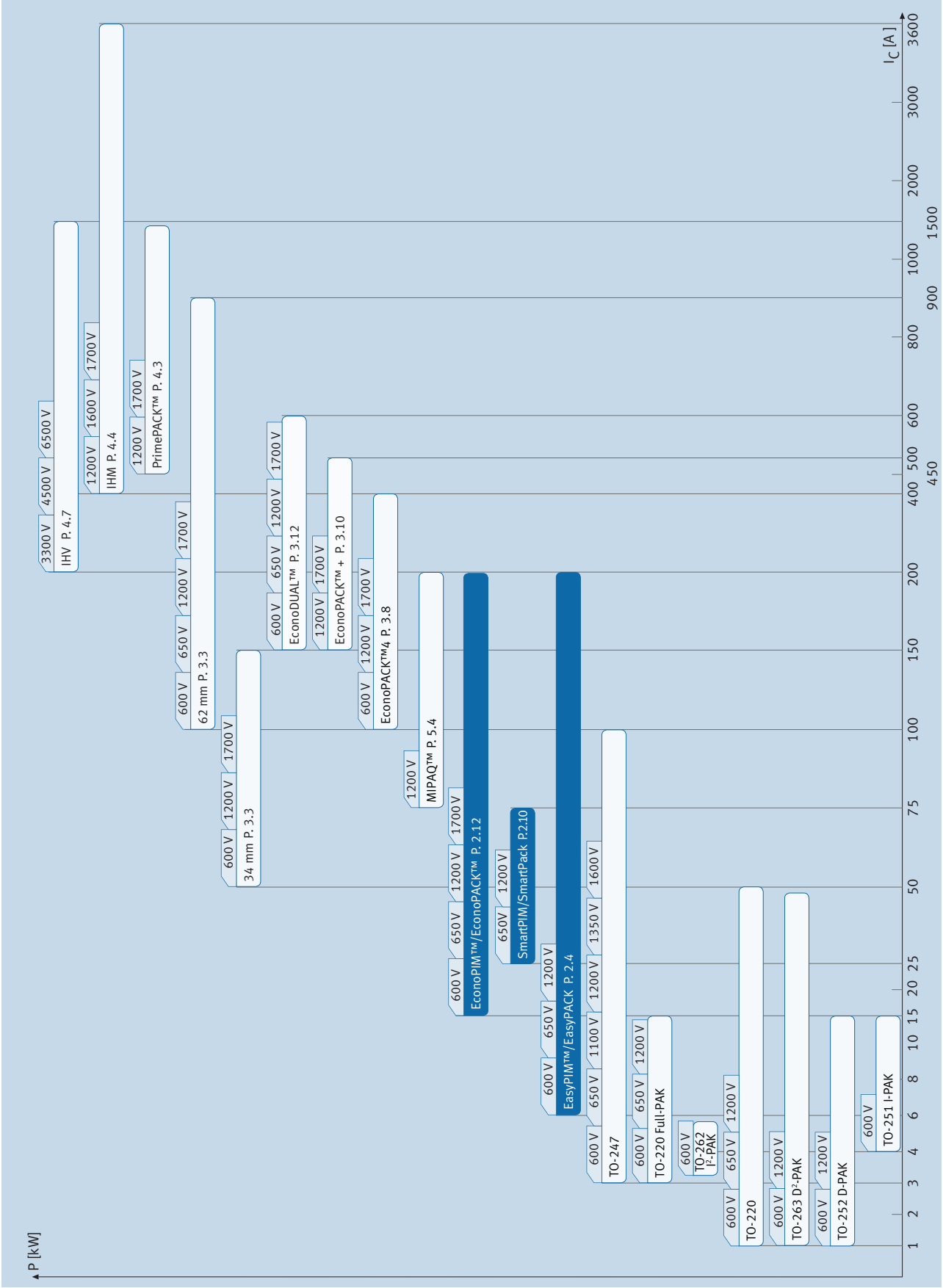
The new Easy 3-Level modules provide a complete phase leg from 30A up to 150A in 600V/650V. The solution offers the significant advantage for designing highly efficient UPS and Solar inverters. New modules for photovoltaic string and multi-string inverters are available.

In the Smart 1 package the possible current range is up to 75A in PACK and 35A in PIM configurations at 650V and 1200V. With its Self-Acting PressFIT assembly and the benefits of the PressFIT technology a new generation of cost saving modules is born.

The Econo family extends the range from 15A up to 200A at 600V/650V/1200V/1700V. The available configurations are the well known EconoPIM™ and EconoPACK™ series. The Econo housing comes with a copper base plate for optimized heat spread and includes a thermistor (NTC).

All module families are also available with the optimized newest IGBT4 technology.

IGBT
Low Power



Easy 1B & 2B Product Portfolio

600 V & 1200 V



I _C	Power Integrated Module		sixpack	
	600 V	1200 V	600 V	1200 V
10 A	FP10R06W1E3 FP10R06W1E3_B11	FP10R12W1T4 FP10R12W1T4_B11		
15 A	FP15R06W1E3 FP15R06W1E3_B11	FP15R12W1T4 FP15R12W1T4_B11 FP15R12W2T4		
20 A	FP20R06W1E3 FP20R06W1E3_B11	FP25R12W2T4 FP25R12W2T4_B11	FS20R06W1E3 FS20R06W1E3_B11	FS25R12W1T4 FS25R12W1T4_B11
35 A	FP30R06W1E3 FP30R06W1E3_B11	FP35R12W2T4 FP35R12W2T4_B11	FS30R06W1E3 FS30R06W1E3_B11	FS35R12W1T4 FS35R12W1T4_B11
50 A	FP50R06W2E3 FP50R06W2E3_B11		FS50R06W1E3 FS50R06W1E3_B11	FS50R12W2T4 FS50R12W2T4_B11
75 A				FS75R12W2T4 FS75R12W2T4_B11
100 A				

W1 = Easy1B **W2 = Easy2B** B11= PressFIT terminals

IGBT
Low Power

Econo IGBT4 Product Portfolio for New Designs

650 V, 1200 V & 1700 V

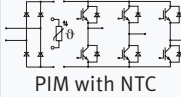
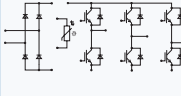
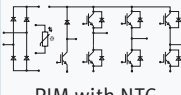
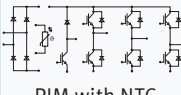
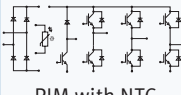


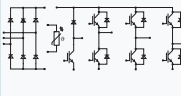
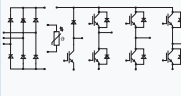
I _C	Power Integrated Module		sixpack		
	650 V	1200 V	650 V	1200 V	1700 V
25 A		FP25R12KT4 FP25R12KT4_B11			
35 A		FP35R12KT4 FP35R12KT4_B11			
50 A	FP50R07N2E4 FP50R07N2E4_B11	FP50R12KT4 FP50R12KT4_B11	FS50R07N2E4 FS50R07N2E4_B11	FS50R12KT4_B15 FS50R12KT4_B11	
75 A	FP75R07N2E4 FP75R07N2E4_B11	FP75R12KT4 FP75R12KT4_B11	FS75R07N2E4 FS75R07N2E4_B11	FS75R12KT4_B15 FS75R12KT4_B11	
100 A	FP100R07N3E4 FP100R07N3E4_B11	FP100R12KT4 FP100R12KT4_B11	FS100R07N2E4 FS100R07N2E4_B11 FS100R07N3E4 FS100R07N3E4_B11	FS100R12KT4 FS100R12KT4_B11 FS100R12KT4G FS100R12KT4G_B11	FS100R17N3E4 FS100R17N3E4_B11
150 A	FP150R07N3E4 FP150R07N3E4_B11		FS150R07N3E4 FS150R07N3E4_B11	FS150R12KT4 FS150R12KT4_B11	FS150R17N3E4 FS150R17N3E4_B11
200 A			FS200R07N3E4R FS200R07N3E4R_B11	FS200R12KT4R FS200R12KT4R_B11	

N2 = Econo2 **N3 = Econo3** B11= PressFIT terminals ..._B15 m3 module alternative mechanically compatible to an IGBT3 module

IGBT Low Power Modules

EasyPIM™ Power Integrated Modules

Single Phase 600 V _{CEs}														
Type	IGBT Inverter							Rectifier Diodes			Brake Chopper			Outline/ page
	V _{CE} V	I _C * A T _C = 80°C	I _C A T _C = 25°C	V _{CEsat} V T _{vj} = 25°C	R _{thjH} K/W typ.	R _{thjC} K/W max.	Eon+ Eoff, mJ T _{vj} = 125°C	V _{RRM} V	I _d A	R _{thjC} K/W	V _{CE} V	IC* A T _C = 80°C	R _{thjC} K/W max.	
 PIM with NTC	IGBT3													
	FB10R06VE3	600	10	16	1,55	4,10	3,10	0,67	800	10	2,10			L_750a/2.17
 PIM with NTC	IGBT3													
	FB10R06W1E3	600	10	16	1,55	3,35	2,20	0,50	800	10	1,35			L_B1c/2.20
	FB15R06W1E3	600	15	22	1,55	2,95	1,85	0,76	800	15	1,05			L_B1c/2.20
	FB20R06W1E3	600	20	27	1,55	2,70	1,60	1,00	800	20	1,05			L_B1c/2.20
 PIM with NTC	IGBT3													
	FB30R06W1E3	600	30	37	1,55	2,25	1,30	1,60	800	30	1,05			L_B1c/2.20
 PIM with NTC	IGBT3													
	FB20R06W1E3_B11	600	20	27	1,55	2,70	1,60	1,00	800	20	1,05	600	20	1,60
 PIM with NTC	IGBT3													
	FB30R06W1E3_B1	600	30	37	1,55	2,25	1,30	1,60	800	30	1,05	600	30	1,30

Three Phase 600 V _{CEs}															
Type	IGBT Inverter							Rectifier Diodes			Brake Chopper			Outline/ page	
	V _{CE} V	I _C * A T _C = 80°C	I _C A T _C = 25°C	V _{CEsat} V T _{vj} = 25°C	R _{thjH} K/W typ.	R _{thjC} K/W max.	Eon+ Eoff, mJ T _{vj} = 125°C	V _{RRM} V	I _d A	R _{thjC} K/W	V _{CE} V	IC* A T _C = 80°C	R _{thjC} K/W max.		
 PIM with NTC	IGBT3														
	FP10R06W1E3	600	10	16	1,55	3,35	2,20	0,50	1600	10	1,35	600	10	2,20	L_B1a/2.19
	FP15R06W1E3	600	15	22	1,55	2,95	1,85	0,76	1600	15	1,35	600	15	1,85	L_B1a/2.19
	FP20R06W1E3	600	20	27	1,55	2,70	1,60	1,00	1600	20	1,35	600	20	1,60	L_B1a/2.19
	FP30R06W1E3	600	30	37	1,55	2,25	1,30	1,40	1600	30	1,35	600	30	1,30	L_B1a/2.19
	FP50R06W2E3	600	50	65	1,45	1,45	0,85	2,25	1600	50	1,15	600	50	1,15	L_B2a/2.23
	FP10R06W1E3_B11	600	10	16	1,55	3,35	2,20	0,50	1600	10	1,35	600	10	2,20	L_B1h/2.19
	FP15R06W1E3_B11	600	15	22	1,55	2,95	1,85	0,76	1600	15	1,35	600	15	1,85	L_B1h/2.19
	FP20R06W1E3_B11	600	20	27	1,55	2,70	1,60	1,00	1600	20	1,35	600	20	1,60	L_B1h/2.19
	FP30R06W1E3_B11	600	30	37	1,55	2,25	1,30	1,40	1600	30	1,35	600	30	1,30	L_B1h/2.19
 PIM with NTC	IGBT3														
	FP50R06W2E3_B11	600	50	65	1,45	1,45	0,85	2,25	1600	50	1,15	600	50	1,15	L_B2b/2.23

* as specified in data sheet

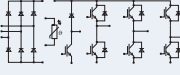

Mounting Hardware see page 2.37

..._B11 PressFIT Modules

..._B1 1-phase rectifier with brake chopper

IGBT Low Power Modules

EasyPIM™ Power Integrated Modules

Three Phase 1200 V _{CES}															
Type	IGBT Inverter							Rectifier Diodes			Brake Chopper			Outline/ page	
	V _{CE} V	I _C * A T _C = 80°C	I _C A T _C = 25°C	V _{CEsat} V T _{vj} = 25°C	R _{thjH} K/W typ.	R _{thjC} K/W max.	E _{on+} E _{off} , mj T _{vj} = 125°C	V _{RRM} V	I _d A	R _{thjC} K/W	V _{CE} V	I _C * A T _C = 80°C	R _{thjC} K/W max.		
 PIM with NTC	IGBT4														
	FP10R12W1T4	1200	10	20	1,85	2,40	1,40	2,15	1600	10	1,35	1200	10	1,40	L_B1a/2.19
	FP15R12W1T4	1200	15	28	1,85	2,10	1,15	2,95	1600	15	1,35	1200	15	1,15	L_B1a/2.19
	FP15R12W2T4	1200	15	data on request											
	FP25R12W2T4	1200	25	39	1,85	1,45	0,85	4,55	1600	25	1,15	1200	25	0,85	L_B2a/2.23
	FP35R12W2T4	1200	35	54	1,85	1,20	0,70	5,80	1600	35	1,15	1200	35	0,70	L_B2a/2.23
	FP10R12W1T4_B11	1200	10	20	1,85	2,40	1,40	2,15	1600	10	1,35	1200	10	1,40	L_B1h/2.19
	FP15R12W1T4_B11	1200	15	28	1,85	2,10	1,15	2,95	1600	15	1,35	1200	15	1,15	L_B1h/2.19
	FP25R12W2T4_B11	1200	25	39	1,85	1,45	0,85	4,55	1600	25	1,15	1200	25	0,85	L_B2b/2.23
FP35R12W2T4_B11	1200	35	54	1,85	1,20	0,70	5,80	1600	35	1,15	1200	35	0,70	L_B2b/2.23	
 PIM with NTC	IGBT4														
	FP06R12W1T4_B3	1200	6	12	1,50	2,70	1,60	1,35	1600	6	1,60				L_B1b/2.19
	FP10R12W1T4_B3	1200	10	20	1,85	2,40	1,40	2,15	1600	10	1,35				L_B1b/2.19
	FP15R12W1T4_B3	1200	15	28	1,85	2,10	1,15	2,95	1600	15	1,35				L_B1b/2.19

* as specified in data sheet


..._B3 3-phase rectifier without brake chopper


..._B11 PressFIT Modules

IGBT
Low Power

IGBT Low Power Modules

EasyDUAL


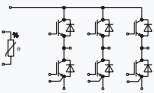
600 V _{CEs}									
Type	IGBT Inverter								Outline/ page
	V _{CE} V	I _C * A T _C = 80°C	I _C A T _C = 25°C	V _{CEsat} V T _{vj} = 25°C	R _{thjH} K/W typ.	R _{thjC} K/W max.	Eon+ Eoff, mJ T _{vj} = 125°C		
 dual with NTC	IGBT3								
	FF200R06YE3	600	200	220	1,45	0,43	0,29	9,70	L_2j/2.18


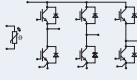
1200 V _{CEs}									
Type	IGBT Inverter								Outline/ page
	V _{CE} V	I _C * A T _C = 80°C	I _C A T _C = 25°C	V _{CEsat} V T _{vj} = 25°C	R _{thjH} K/W typ.	R _{thjC} K/W max.	Eon+ Eoff, mJ T _{vj} = 125°C		
 dual with NTC	IGBT3								
	FF75R12YT3	1200	75	100	1,80	0,53	0,36	15,70	L_2j/2.18
	FF100R12YT3	1200	100	140	1,70	0,41	0,28	21,70	L_2j/2.18
	FF150R12YT3	1200	150	200	1,70	0,31	0,20	32,00	L_2j/2.18

IGBT Low Power Modules

EasyPACK

IGBT
Low Power

600 V _{CES}									
Type	IGBT Inverter								Outline/ page
	V _{CE} V	I _C * A T _C = 80°C	I _C A T _C = 25°C	V _{CEsat} V T _{vj} = 25°C	R _{thjH} K/W typ.	R _{thjC} K/W max.	Eon+ Eoff, mJ T _{vj} = 125°C		
 sixpack	IGBT3								
	FS10R06VE3	600	10	16	1,55	3,70	3,00	0,50	L_750b/2.17
	FS15R06VE3	600	15	22	1,55	3,00	2,30	0,76	L_750b/2.17
	FS20R06VE3	600	20	25	1,55	2,75	2,00	1,00	L_750b/2.17
 sixpack with NTC	IGBT3								
	FS6R06VE3_B2	600	6	11	1,55	4,60	3,70	0,25	L_750c/2.17
	FS10R06VE3_B2	600	10	16	1,55	3,70	3,00	0,50	L_750c/2.17
	FS15R06VE3_B2	600	15	22	1,55	3,00	2,30	0,76	L_750c/2.17
	FS20R06VE3_B2	600	20	25	1,55	2,75	2,00	1,00	L_750c/2.17
	FS20R06W1E3	600	20	35	1,55	1,90	1,10	1,05	L_B1e/2.21
	FS30R06W1E3	600	30	45	1,55	1,75	1,00	1,58	L_B1e/2.21
	FS50R06W1E3	600	50	70	1,45	1,46	0,73	2,06	L_B1e/2.21
	FS20R06W1E3_B11	600	20	35	1,55	1,90	1,10	1,05	L_B1j/2.21
	FS30R06W1E3_B11	600	30	45	1,55	1,75	1,00	1,58	L_B1j/2.21
	FS50R06W1E3_B11	600	50	70	1,45	1,46	0,73	2,06	L_B1j/2.21

1200 V _{CES}									
Type	IGBT Inverter								Outline/ page
	V _{CE} V	I _C * A T _C = 80°C	I _C A T _C = 25°C	V _{CEsat} V T _{vj} = 25°C	R _{thjH} K/W typ.	R _{thjC} K/W max.	Eon+ Eoff, mJ T _{vj} = 125°C		
 sixpack	IGBT3								
	FS10R12VT3	1200	10	16	1,90	2,40	1,95	2,35	L_750f/2.17
	FS15R12VT3	1200	15	24	1,70	1,90	1,45	3,40	L_750f/2.17
 sixpack with NTC	IGBT4								
	FS25R12W1T4	1200	25	45	1,85	1,46	0,74	4,65	L_B1e/2.21
	FS35R12W1T4	1200	35	65	1,85	1,35	0,66	6,65	L_B1e/2.20
	FS50R12W2T4	1200	50	83	1,85	1,05	0,45	9,20	L_B2c/2.23
	FS75R12W2T4	1200	75	107	1,85	0,95	0,40	13,3	L_B2c/2.23
	FS25R12W1T4_B11	1200	25	45	1,85	1,46	0,74	4,65	L_B1j/2.21
	FS35R12W1T4_B11	1200	35	65	1,85	1,35	0,66	6,65	L_B1j/2.21
	FS50R12W2T4_B11	1200	50	83	1,85	1,05	0,45	9,20	L_B2d/2.23
FS75R12W2T4_B11	1200	75	107	1,85	0,95	0,40	13,3	L_B2d/2.23	

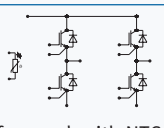
* as specified in data sheet

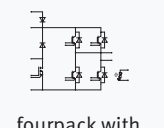


Mounting Hardware see page 2.37 ..._B2 sixpack with NTC

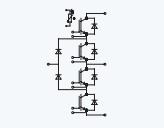
..._B11 PressFIT Modules

IGBT Low Power Modules

EASY Solar/UPS-High Efficiency Line

600 V _{CEs}									
Type	IGBT Inverter								Outline/ page
	V _{CE} V	I _C * A T _C = 80°C	I _C A T _C = 25°C	V _{CEsat} V T _{vj} = 25°C	R _{thjH} K/W typ.	R _{thjC} K/W max.	Eon+ Eoff, mj T _{vj} = 125°C		
 fourpack with NTC	IGBT3								
	F4-30R06W1E3	600	30	48	1,55	1,55	0,90	1,58	L_B1f/2.21
	F4-50R06W1E3	600	50	75	1,45	1,30	0,66	2,06	L_B1f/2.21
	F4-75R06W1E3	600	75	100	1,45	1,10	0,55	2,65	L_B1f/2.21


650 V _{CEs}									
Type	IGBT Inverter								Outline/ page
	V _{CE} V	I _C * A T _C = 80°C	I _C A T _C = 25°C	V _{CEsat} V T _{vj} = 25°C	R _{thjH} K/W typ.	R _{thjC} K/W max.	Eon+ Eoff, mj T _{vj} = 125°C		
 fourpack with booster and NTC	IGBT HighSpeed 3								
	F4-50R07W2H3_B51 	650	50		data on request				L_B2i/2.26
	F4-75R07W2H3_B51 	650	75		data on request				L_B2i/2.26

600/650 V _{CEs}									
Type	IGBT Inverter								Outline/ page
	V _{CE} V	I _C * A T _C = 80°C	I _C A T _C = 25°C	V _{CEsat} V T _{vj} = 25°C	R _{thjH} K/W typ.	R _{thjC} K/W max.	Eon+ Eoff, mj T _{vj} = 125°C		
 3-level NPC 1	IGBT3								
	F3L30R06W1E3_B11	600	30	45	1,55	1,75	1,0	1,23	L_B1i/2.22
	F3L50R06W1E3_B11	600	50	75	1,45	1,45	0,85	1,85	L_B1i/2.22
	F3L75R07W2E3_B11	650	75	95	1,45	1,10	0,60	2,90	L_B2e/2.24
	F3L100R07W2E3_B11	650	100	117	1,45	0,95	0,50	4,20	L_B2f/2.24
F3L150R07W2E3_B11	650	150	150	1,45	0,85	0,45	6,85	L_B2f/2.24	

* as specified in data sheet

..._B51 fourpack with booster and NTC

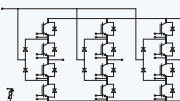


..._B11 PressFIT Modules

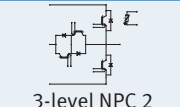

 Based on Infineon Silicon-Carbide technology for higher performance and efficiency

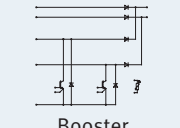


IGBT Low Power Modules

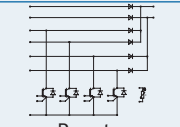

EASY Solar/UPS-High Efficiency Line

IGBT Low Power

650 V _{CES}								
Type	IGBT Inverter							Outline/ page
	V _{CE} V	I _C * A T _C = 80°C	I _C A T _C = 25°C	V _{CEsat} V T _{vj} = 25°C	R _{thjH} K/W typ.	R _{thjC} K/W max.	Eon+ Eoff, mj T _{vj} = 125°C	
	IGBT HighSpeed 3							
	FS3L30R07W2H3F_B11 	650	30	data on request				L_B2k/2.27
	FS3L50R07W2H3F_B11 	650	50	data on request				L_B2k/2.27


1200 V _{CES}									
Type	IGBT Inverter							Outline/ page	
	V _{CE} V	I _C * A T _C = 80°C	I _C A T _C = 25°C	V _{CEsat} V T _{vj} = 25°C	R _{thjH} K/W typ.	R _{thjC} K/W max.	Eon+ Eoff, mj T _{vj} = 125°C		
	IGBT HighSpeed 3								
3-level NPC 2	F3L80R12W1H3_B11 	1200	80	90	1,55	0,95	0,55	2,53	L_B1j/2.21

1200 V _{CES}									
Type	IGBT Inverter							Outline/ page	
	V _{CE} V	I _C * A T _C = 80°C	I _C A T _C = 25°C	V _{CEsat} V T _{vj} = 25°C	R _{thjH} K/W typ.	R _{thjC} K/W max.	Eon+ Eoff, mj T _{vj} = 125°C		
	IGBT HighSpeed 3								
	DF75R12W1H4F_B11 	1200	data on request						
	DF80R12W2H3_B11	1200	20	50	1,55	1,1	0,65	2,75	L_B2g/2.25
	DF80R12W2H3F_B11 	1200	20	50	1,55	1,1	0,65	2,75	L_B2g/2.25

1200 V _{CES}									
Type	IGBT Inverter							Outline/ page	
	V _{CE} V	I _C * A T _C = 80°C	I _C A T _C = 25°C	V _{CEsat} V T _{vj} = 25°C	R _{thjH} K/W typ.	R _{thjC} K/W max.	Eon+ Eoff, mj T _{vj} = 125°C		
	IGBT HighSpeed 3								
	DF160R12W2H3_B11	1200	20	50	1,55	1,1	0,65	1,52	L_B2h/2.25
	DF160R12W2H3F_B11 	1200	20	50	1,55	1,1	0,65	1,52	L_B2h/2.25


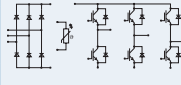
* as specified in data sheet


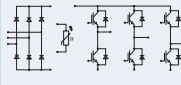
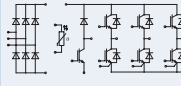
..._B11 PressFIT Modules

 Based on Infineon Silicon-Carbide technology for higher performance and efficiency

IGBT Low Power Modules

SmartPIM Power Integrated Modules


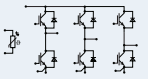
Three Phase 650 V _{CEs}														
Type	IGBT Inverter							Rectifier Diodes			Brake Chopper			Outline/ page
	V _{CE} V	I _C * A T _C = 80°C	I _C A T _C = 25°C	V _{CEsat} V T _{vj} = 25°C	R _{thjH} K/W typ.	R _{thjC} K/W max.	Eon+ Eoff, mJ T _{vj} = 125°C	V _{RRM} V	I _d A	R _{thjC} K/W	V _{CE} V	I _C * A T _C = 80°C	R _{thjC} K/W max.	
 IGBT4 ◆ FP30R07U1E4 ◆ FP50R07U1E4 PIM with NTC	650	30	50	1,60	1,75	0,95	2,10	1600	30	0,65	1,60	30	0,95	L_S1a/2.28
	650	50	75	1,55	1,20	0,65	3,35	1600	50	0,65	1,55	50	0,65	L_S1a/2.28


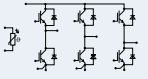
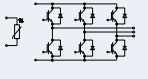
Three Phase 1200 V _{CEs}														
Type	IGBT Inverter							Rectifier Diodes			Brake Chopper			Outline/ page
	V _{CE} V	I _C * A T _C = 80°C	I _C A T _C = 25°C	V _{CEsat} V T _{vj} = 25°C	R _{thjH} K/W typ.	R _{thjC} K/W max.	Eon+ Eoff, mJ T _{vj} = 125°C	V _{RRM} V	I _d A	R _{thjC} K/W	V _{CE} V	I _C * A T _C = 80°C	R _{thjC} K/W max.	
 IGBT4 ◆ FP25R12U1T4 ◆ FP35R12U1T4 PIM with NTC	1200	25	39	1,85	1,30	0,80	4,55	1600	25	1,05	1200	25	0,80	L_S1a/2.28
	1200	35	54	1,85	1,05	0,60	5,80	1600	35	1,05	1200	35	0,60	L_S1a/2.28
 IGBT4 ◆ FP35R12U2T4 ◆ FP50R12U2T4 PIM with NTC	1200	data on request												
	1200	data on request												

◆ New type * as specified in data sheet

IGBT Low Power Modules

SmartPACK Modules

650 V _{CES}							
Type	V _{CES} V	I _C A	V _{CESat} V T _{vj} = 25°C typ.	P _{tot} W	R _{thjC} K/W max	Outline/ page	
 sixpack with NTC	IGBT4						
	◆ FS50R07U1E4	650	50	1,55	230	0,65	L_S1c/2.30
	◆ FS75R07U1E4	650	75	1,55	275	0,55v	L_S1c/2.30

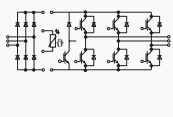
1200 V _{CES}							
Type	V _{CES} V	I _C A	V _{CESat} V T _{vj} = 25°C typ.	P _{tot} W	R _{thjC} K/W max	Outline/ page	
 sixpack with NTC	IGBT4						
	◆ FS35R12U1T4	1200	35	data on request			L_S1b/2.29
	◆ FS50R12U1T4	1200	50	data on request			L_S1b/2.29
 sixpack with NTC	IGBT4						
	◆ FS75R12U2T4	1200	75	data on request			

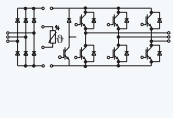
◆ New type * as specified in data sheet

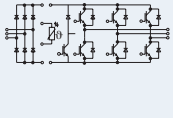
IGBT Low Power Modules

EconoPIM™

IGBT Low Power

Three Phase 600 V _{CEs}													
Type	IGBT Inverter				Rectifier Diodes				Brake Chopper			Outline/ page	
	V _{CE} V	I _C A	R _{thjC} K/W max	V _{CEsat} V T _{vj} = 25°C	V _{RRM} V	I _d A T _c = 80°C	R _{thjC} K/W max	V _f V T _{vj} = 150°C	V _{CEs} V	I _{C,IGBT} A T _c = 80°C	R _{thjC} K/W max		
 PIM with NTC	IGBT3												
	FP30R06KE3	600	30	1,20	1,55	1600	60	0,85	0,90	600	30,0	1,20	M_E2a/2.31
	FP50R06KE3	600	50	0,80	1,45	1600	70	0,85	1,05	600	30,0	1,20	M_E2a/2.31
	FP50R06KE3G	600	50	0,80	1,45	1600	80	0,65	1,00	600	50,0	0,80	M_E3a/2.33
	FP75R06KE3	600	75	0,60	1,45	1600	100	0,50	1,05	600	50,0	0,80	M_E3a/2.33
FP100R06KE3	600	100	0,45	1,45	1600	100	0,50	1,10	600	50,0	0,80	M_E3a/2.33	

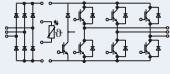
Three Phase 650 V _{CEs}														
Type	IGBT Inverter				Rectifier Diodes				Brake Chopper			Outline/ page		
	V _{CE} V	I _C A	R _{thjC} K/W max	V _{CEsat} V T _{vj} = 25°C	V _{RRM} V	I _d A T _c = 80°C	R _{thjC} K/W max	V _f V T _{vj} = 150°C	V _{CEs} V	I _{C,IGBT} A T _c = 80°C	R _{thjC} K/W max			
 PIM with NTC	IGBT4													
	FP50R07N2E4	650	50	0,80	1,55	1600	80	0,65	1,00	650	50,0	0,80	M_E2o/2.33	
	FP75R07N2E4	650	75	0,60	1,55	1600	80	0,65	1,00	650	50,0	0,80	M_E2o/2.33	
	FP100R07N3E4	650	100	0,45	1,55	1600	100	0,50	1,10	650	75,0	0,60	M_E3g/2.35	
	FP150R07N3E4	650	150	0,35	1,55	1600	150	0,40	1,10	650	100,0	0,45	M_E3g/2.35	
	IGBT4 PressFIT													
	FP50R07N2E4_B11	650	50	0,80	1,55	1600	80	0,65	1,00	650	50,0	0,80	M_E2n/2.33	
	FP75R07N2E4_B11	650	75	0,60	1,55	1600	80	0,65	1,00	650	50,0	0,80	M_E2n/2.33	
	FP100R07N3E4_B11	650	100	0,45	1,55	1600	100	0,50	1,10	650	75,0	0,60	M_E3h/2.35	
FP150R07N3E4_B11	650	150	0,35	1,55	1600	150	0,40	1,10	650	100,0	0,45	M_E3h/2.35		

Three Phase 1200 V _{CEs}														
Type	IGBT Inverter				Rectifier Diodes				Brake Chopper			Outline/ page		
	V _{CE} V	I _C A	R _{thjC} K/W max	V _{CEsat} V T _{vj} = 25°C	V _{RRM} V	I _d A T _c = 80°C	R _{thjC} K/W max	V _f V T _{vj} = 150°C	V _{CEs} V	I _{C,IGBT} A T _c = 80°C	R _{thjC} K/W max			
 PIM with NTC	IGBT2 Fast													
	FP15R12KS4C	1200	15	0,70	3,20	1600	40	1,00	0,95	1200	10,0	1,20	M_E2a/2.31	
	FP25R12KS4C	1200	25	0,55	3,20	1600	40	1,00	1,05	1200	12,5	1,20	M_E2a/2.31	
	FP50R12KS4C	1200	50	0,35	3,20	1600	40	0,65	1,05	1200	25,0	0,55	M_E3a/2.33	
	IGBT3													
	FP15R12KE3G	1200	15	1,20	1,70	1600	50	1,00	0,95	1200	10,0	1,50	M_E2a/2.31	
	FP25R12KE3	1200	25	0,80	1,70	1600	50	1,00	1,05	1200	15,0	1,20	M_E2a/2.31	
	FP40R12KE3	1200	40	0,60	1,80	1600	50	1,00	1,20	1200	15,0	1,20	M_E2a/2.31	
	FP40R12KE3G	1200	40	0,60	1,80	1600	50	1,00	1,20	1200	40,0	0,60	M_E3a/2.33	
	FP50R12KE3	1200	50	0,45	1,70	1600	80	0,65	1,00	1200	40,0	0,60	M_E3a/2.33	
FP75R12KE3	1200	75	0,35	1,70	1600	80	0,65	1,15	1200	40,0	0,60	M_E3a/2.33		

..._B11 PressFIT Modules

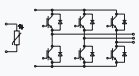
IGBT Low Power Modules

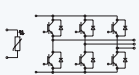
EconoPIM™

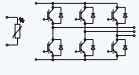
Three Phase 1200 V _{CES}													
Type	IGBT Inverter				Rectifier Diodes				Brake Chopper			Outline/ page	
	V _{CE} V	I _C A	R _{thjC} K/W max	V _{CESat} V T _{vj} = 25°C	V _{RRM} V	I _d A T _c = 80°C	R _{thjC} K/W max	V _f V T _{vj} = 150°C	V _{CES} V	I _{C,IGBT} A T _c = 80°C	R _{thjC} K/W max		
	IGBT3 Fast												
	FP15R12KT3	1200	15	1,20	1,70	1600	50	1,00	0,90	1200	10	1,50	M_E2a/2.31
	FP25R12KT3	1200	25	0,80	1,70	1600	50	1,00	1,05	1200	15	1,20	M_E2a/2.31
	FP40R12KT3	1200	40	0,60	1,80	1600	50	1,00	1,20	1200	15	1,20	M_E2a/2.31
	FP40R12KT3G	1200	40	0,60	1,80	1600	50	1,00	1,20	1200	40	0,60	M_E3a/2.33
	FP50R12KT3	1200	50	0,45	1,70	1600	80	0,65	1,00	1200	40	0,60	M_E3a/2.33
	FP75R12KT3	1200	75	0,35	1,70	1600	80	0,65	1,10	1200	40	0,60	M_E3a/2.33
	IGBT4												
	FP25R12KT4	1200	25	0,95	1,85	1600	80	0,85	0,90	1200	15	1,40	M_E2m/2.32
	FP25R12KT4_B15	1200	25	0,95	1,85	1600	50	0,85	0,90	1200	15	1,40	M_E2a/2.31
	FP35R12KT4	1200	35	0,72	1,85	1600	80	0,85	0,95	1200	25	0,95	M_E2m/2.32
	FP35R12KT4_B15	1200	35	0,72	1,85	1600	80	0,85	0,95	1200	25	1,40	M_E2a/2.31
	FP50R12KT4	1200	50	0,54	1,85	1600	80	0,85	1,05	1200	25	0,95	M_E2m/2.32
	FP50R12KT4G_B15	1200	50	0,54	1,85	1600	80	0,65	1,15	1200	25	1,40	M_E3a/2.33
	FP50R12KT4G	1200	50	0,54	1,85	1600	80	0,85	1,15	1200	25	0,95	M_E3j/2.34
	FP75R12KT4	1200	75	0,39	1,85	1600	140	0,65	1,15	1200	50	0,54	M_E3j/2.34
	FP75R12KT4_B15	1200	75	0,39	1,85	1600	140	0,65	1,15	1200	35	0,72	M_E3a/2.33
	FP100R12KT4	1200	100	0,29	1,75	1600	150	0,40	1,00	1200	50	0,54	M_E3j/2.34
	IGBT4 PressFIT												
	◆ FP25R12KT4_B11	1200	25	0,95	1,85	1600	80	0,85	0,90	1200	15	1,40	M_E2h/2.31
FP35R12KT4_B11	1200	35	0,72	1,85	1600	80	0,85	0,95	1200	25	0,95	M_E2h/2.31	
FP50R12KT4_B11	1200	50	0,54	1,85	1600	80	0,85	1,05	1200	25	0,95	M_E2h/2.31	
FP75R12KT4_B11	1200	75	0,39	1,85	1600	140	0,65	1,15	1200	50	0,54	M_E3f/2.34	
FP100R12KT4_B11	1200	100	0,29	1,75	1600	150	0,40	1,00	1200	50	0,54	M_E3f/2.34	

◆ New type ..._B11 PressFIT Modules ..._B15 module alternative mechanically compatible to an IGBT3 module

IGBT Low Power Modules EconoPACK™

600 V _{CES}							
Type	V _{CES} V	I _C A	V _{CESat} V T _{vj} = 25°C typ.	P _{tot} W	R _{thjC} K/W max	Outline/ page	
 sixpack with NTC	IGBT3						
	FS50R06KE3	600	50	1,45	190	0,80	M_E2b/2.31
	FS75R06KE3	600	75	1,45	250	0,60	M_E2b/2.31
	FS100R06KE3	600	100	1,45	335	0,45	M_E3b/2.34
	FS150R06KE3	600	150	1,45	430	0,35	M_E3b/2.34
	FS200R06KE3	600	200	1,45	600	0,25	M_E3b/2.34

650 V _{CES}							
Type	V _{CES} V	I _C A	V _{CESat} V T _{vj} = 25°C typ.	P _{tot} W	R _{thjC} K/W max	Outline/ page	
 sixpack with NTC	IGBT4						
	FS50R07N2E4	650	50	1,55	190	0,80	M_E2b/2.31
	FS75R07N2E4	650	75	1,55	250	0,60	M_E2b/2.31
	FS100R07N2E4	650	100	1,55	335	0,45	M_E2b/2.31
	FS100R07N3E4	650	100	1,55	335	0,45	M_E3b/2.34
	FS150R07N3E4	650	150	1,55	430	0,35	M_E3b/2.34
	FS200R07N3E4 R	650	200	1,55	600	0,25	M_E3b/2.34


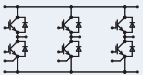
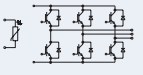
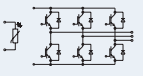
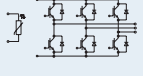
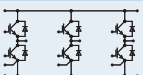
650 V _{CES} PressFIT							
Type	V _{CES} V	I _C A	V _{CESat} V T _{vj} = 25°C typ.	P _{tot} W	R _{thjC} K/W max	Outline/ page	
 sixpack with NTC	IGBT4						
	FS50R07N2E4_B11	650	50	1,55	190	0,80	M_E2p/2.33
	FS75R07N2E4_B11	650	75	1,55	250	0,60	M_E2p/2.33
	FS100R07N2E4_B11	650	100	1,55	335	0,45	M_E2p/2.33
	FS100R07N3E4_B11	650	100	1,55	335	0,45	M_E3e/2.34
	FS150R07N3E4_B11	650	150	1,55	430	0,35	M_E3e/2.34
	FS200R07N3E4R_B11 ^{*)}	650	200	1,55	600	0,25	M_E3e/2.34

..._B11 PressFIT Modules

^{*)} continuous operation power limited to 150A rms.

IGBT Low Power Modules

EconoPACK™

1200 V _{CES}							
Type	V _{CES} V	I _C A	V _{CESat} V T _{vj} = 25°C typ.	P _{tot} W	R _{thjC} K/W max	Outline/ page	
 sixpack	IGBT2 Fast						
	FS75R12KS4	1200	75	3,20	500	0,25 M_E3c/2.35	
	FS100R12KS4	1200	100	3,20	660	0,19 M_E3c/2.35	
 sixpack with NTC	IGBT3						
	FS25R12KE3G	1200	25	1,70	145	0,86 M_E2b/2.31	
	FS35R12KE3G	1200	35	1,70	200	0,60 M_E2b/2.31	
	FS50R12KE3	1200	50	1,70	270	0,45 M_E2b/2.31	
	FS75R12KE3	1200	75	1,70	350	0,35 M_E2b/2.31	
	FS75R12KE3G	1200	75	1,70	350	0,35 M_E3b/2.34	
	FS100R12KE3	1200	100	1,70	480	0,26 M_E3b/2.34	
	FS150R12KE3	1200	150	1,70	700	0,18 M_E3b/2.34	
 sixpack with NTC	IGBT3 Fast						
	FS25R12KT3	1200	25	1,70	145	0,86 M_E2b/2.31	
	FS35R12KT3	1200	35	1,70	210	0,60 M_E2b/2.31	
	FS50R12KT3	1200	50	1,70	280	0,45 M_E2b/2.31	
	FS75R12KT3	1200	75	1,70	355	0,35 M_E2b/2.31	
	FS75R12KT3G	1200	75	1,70	355	0,35 M_E3b/2.34	
	FS100R12KT3	1200	100	1,70	480	0,26 M_E3b/2.34	
	FS150R12KT3	1200	150	1,70	700	0,18 M_E3b/2.34	
	IGBT4						
	FS50R12KT4_B15	1200	50	1,85	280	0,54 M_E2b/2.31	
	FS75R12KT4_B15	1200	75	1,85	385	0,39 M_E2b/2.31	
	FS100R12KT4G	1200	100	1,75	515	0,29 M_E3b/2.34	
	FS150R12KT4	1200	150	1,75	750	0,20 M_E3b/2.34	
	FS200R12KT4R ^{*)}	1200	200	1,75	1000	0,15 M_E3b/2.34	
	 sixpack with NTC	IGBT4 PressFIT					
FS50R12KT4_B11		1200	50	1,85	280	0,54 M_E2k/2.32	
FS75R12KT4_B11		1200	75	1,85	385	0,39 M_E2k/2.32	
FS100R12KT4G_B11		1200	100	1,75	515	0,29 M_E3e/2.34	
FS150R12KT4_B11		1200	150	1,75	750	0,20 M_E3e/2.34	
FS200R12KT4R_B11 ^{*)}		1200	200	1,75	1000	0,15 M_E3e/2.34	
 sixpack	IGBT4						
	FS100R12KT4	1200	100	1,75	515	0,29 M_E2i/2.32	
	IGBT4 PressFIT						
	FS100R12KT4_B11	1200	100	1,75	515	0,29 M_E2j/2.32	

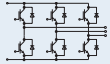
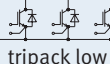

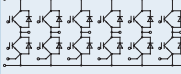
..._B11 PressFIT Modules ..._B15 module alternative mechanically compatible to an IGBT3 module

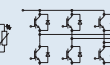

^{*)} continuous operation power limited to 150A rms.

IGBT Low Power Modules

EconoPACK™

IGBT
Low Power

1200 V _{CES}							
Type	V _{CES} V	I _C A	V _{CESat} V T _{vj} = 25°C typ.	P _{tot} W	R _{thjC} K/W max	Outline/ page	
 sixpack for active front-end applications	IGBT3 FS75R12KE3_B9	1200	75	1,7	355	0,35	M_E2l/2.32
	IGBT4 FS150R12KT4_B9	1200	150	1,75	750	0,20	M_E3l/2.35
 tripack low	FT150R12KE4_B5**)	1200	150	data on request			M_E2f/2.31
 fourpack with NTC	IGBT2 Fast						
	F4-50R12KS4	1200	50	3,2	355	0,35	M_E2e/2.31
	F4-75R12KS4	1200	75	3,2	500	0,25	M_E2e/2.31
	F4-100R12KS4	1200	100	3,2	660	0,19	M_E3d/2.34
	F4-150R12KS4	1200	150	3,2	690	0,19	M_E3d/2.34
	IGBT2 Fast PressFIT						
F4-50R12KS4_B11	1200	50	3,2	355	0,35	M_E2c/2.32	
F4-75R12KS4_B11	1200	75	3,2	500	0,25	M_E2c/2.32	
 12-pack	IGBT4						
	F12-25R12KT4G	1200	25	1,85	160	0,95	M_E3i/2.34
	F12-35R12KT4G	1200	35	1,85	210	0,72	M_E3i/2.34

1700 V _{CES}							
Type	V _{CES} V	I _C A	V _{CESat} V T _{vj} = 25°C typ.	P _{tot} W	R _{thjC} K/W max	Outline/ page	
 sixpack with NTC	IGBT2 fast FS100R17KS4F 	1700	100	4,15	960	0,130	M_E3p/2.35
	IGBT3						
	FS50R17KE3_B17	1700	50	2,00	345	0,360	M_E2g/2.31
	FS75R17KE3	1700	75	2,00	465	0,270	M_E3b/2.34
	FS100R17KE3	1700	100	2,00	555	0,225	M_E3b/2.34
	IGBT4						
	FS100R17N3E4	1700	100	1,95	600	0,25	M_E3b/2.34
	FS150R17N3E4	1700	150	1,95	835	0,18	M_E3b/2.34
	IGBT4 PressFIT						
	FS100R17N3E4_B11	1700	100	1,95	600	0,25	M_E3b/2.34
FS150R17N3E4_B11	1700	150	1,95	835	0,18	M_E3b/2.34	

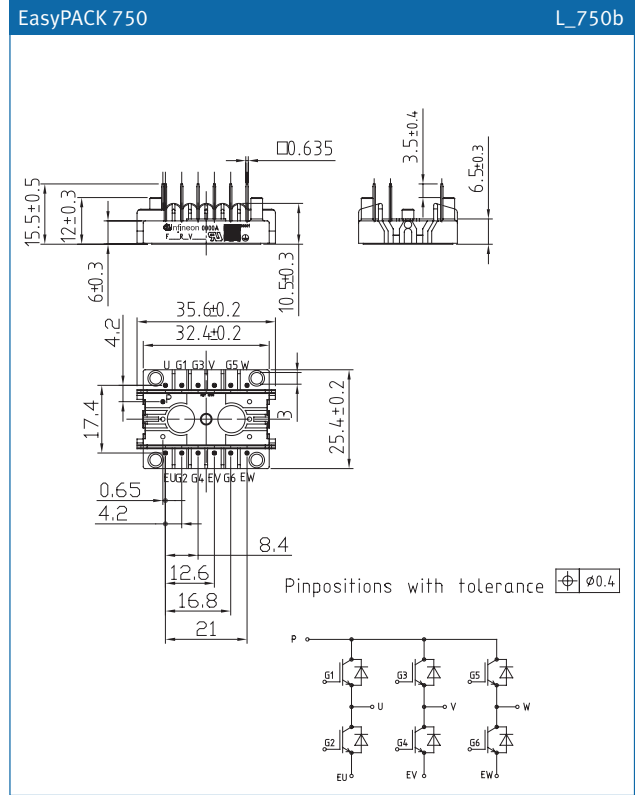
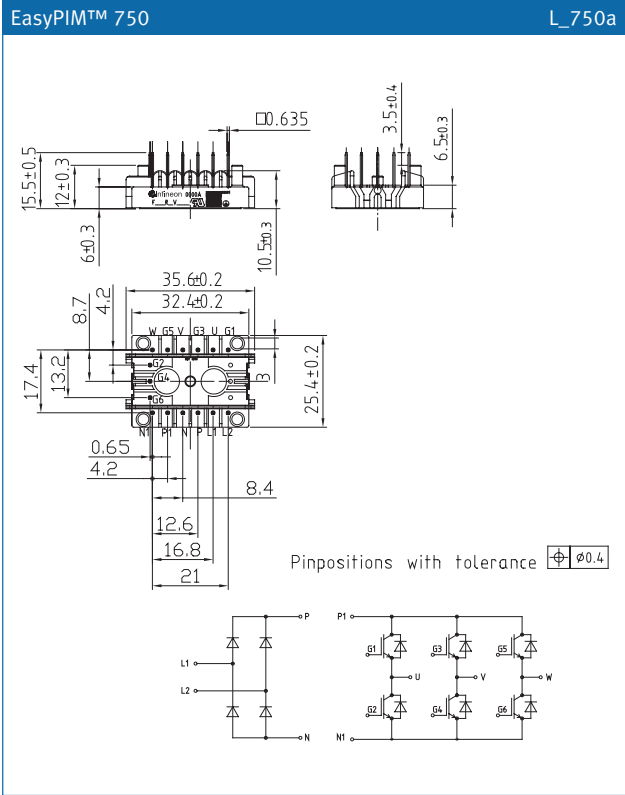
** High side to be found in MIPAQ™ base configuration

..._B5 low side module ..._B9 module for active front-end applications

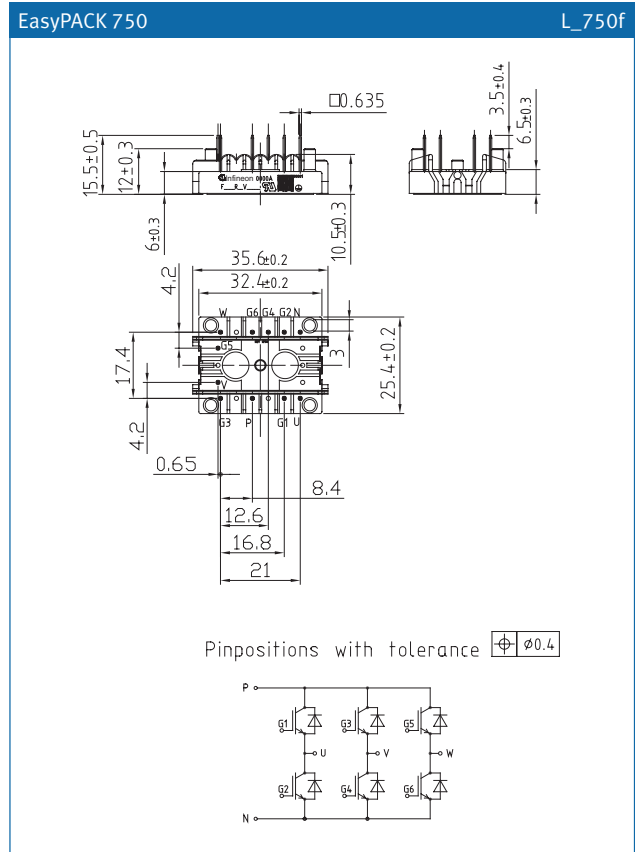
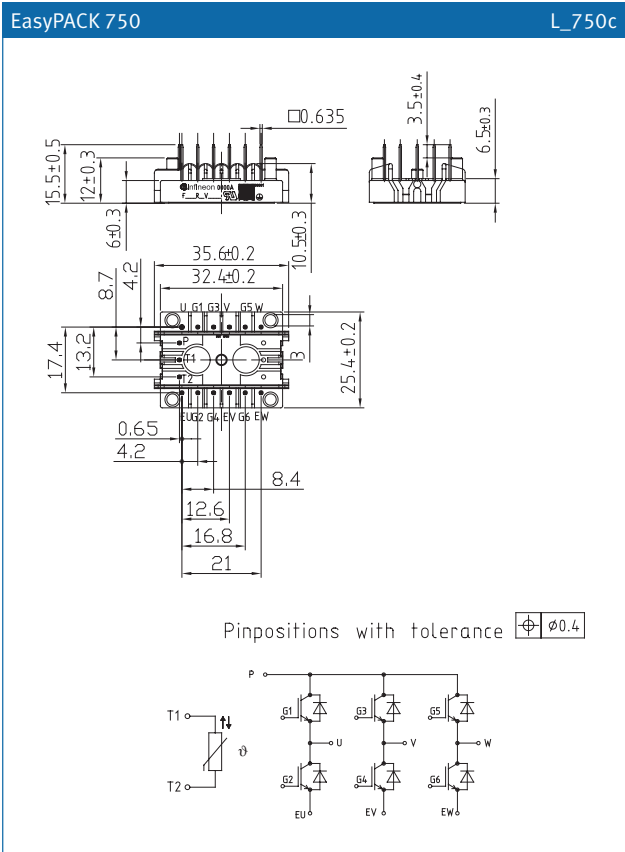
..._B11 PressFIT Modules ..._B17 Module with special pinning for increased creepage distance

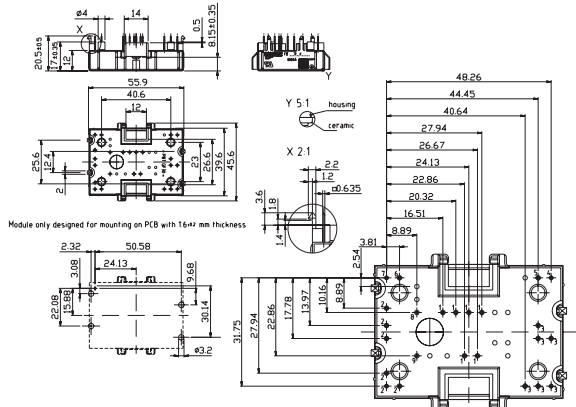
 Based on Infineon Silicon-Carbide technology for higher performance and efficiency

Outlines

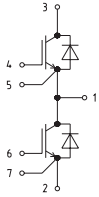


IGBT
Low Power



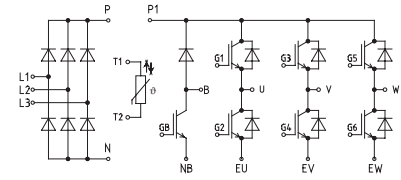
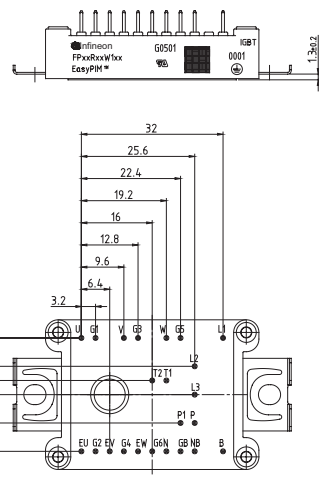
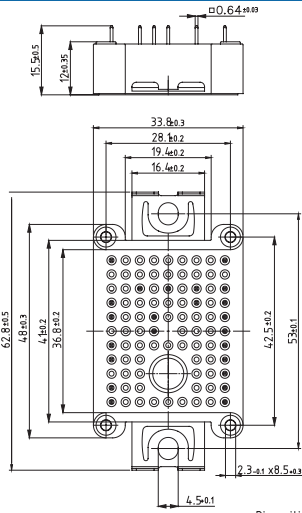


Propositions with tolerance



EasyPIM™ 1B

L_B1a

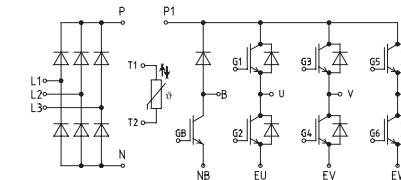
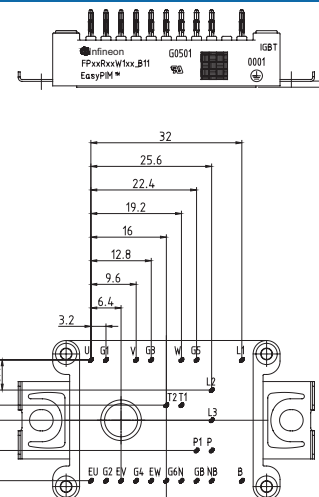
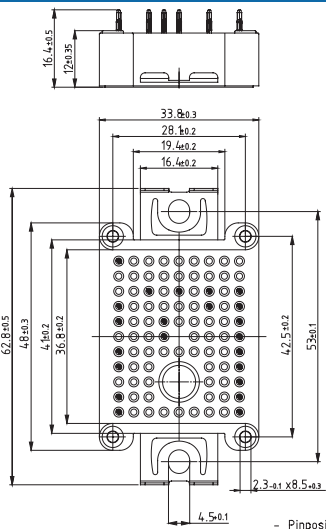


Pinpositions with tolerance ± 0.4

IGBT
Low Power

EasyPIM™ 1B

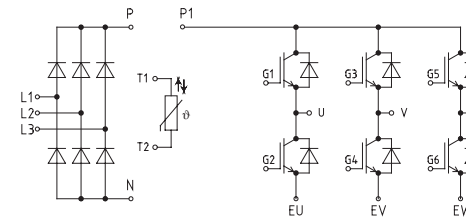
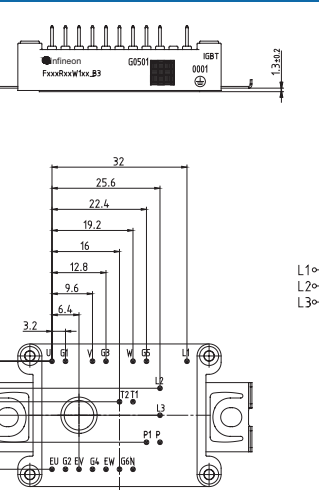
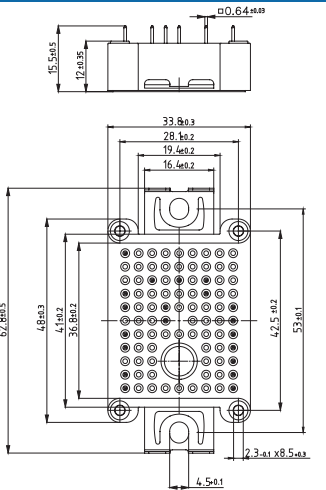
L_B1h



- Pinpositions typ. ± 0.4

EasyPIM™ 1B

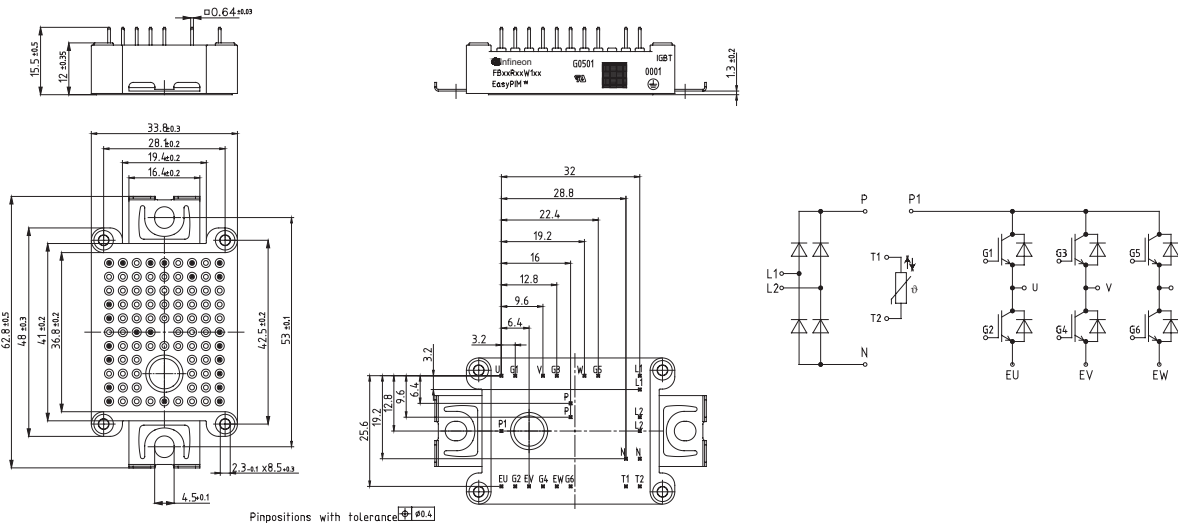
L_B1b



Pinpositions with tolerance ± 0.4

EasyPIM™ 1B

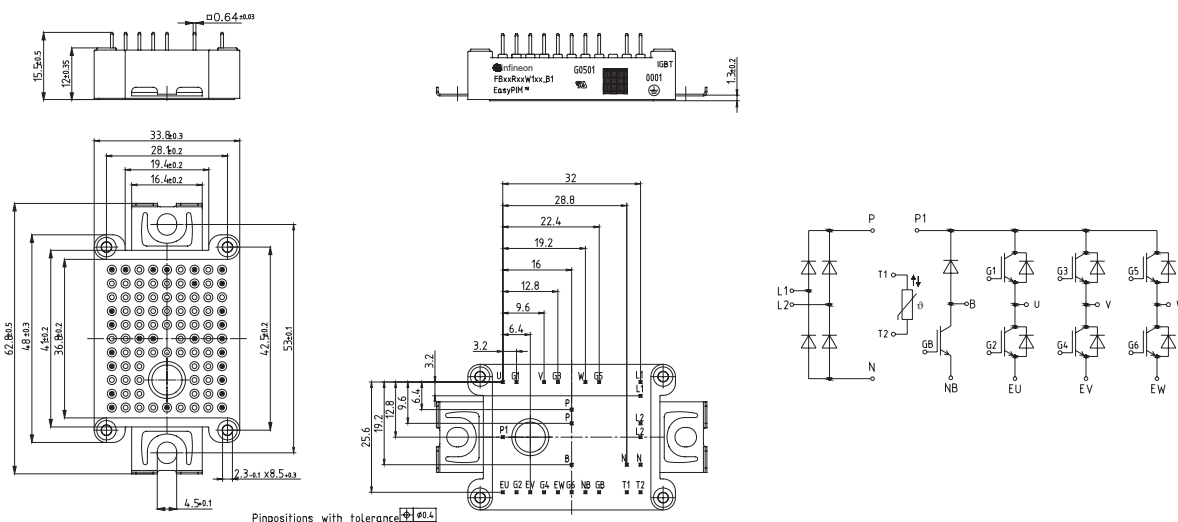
L_B1c



Pinpositions with tolerance ± 0.4

EasyPIM™ 1B

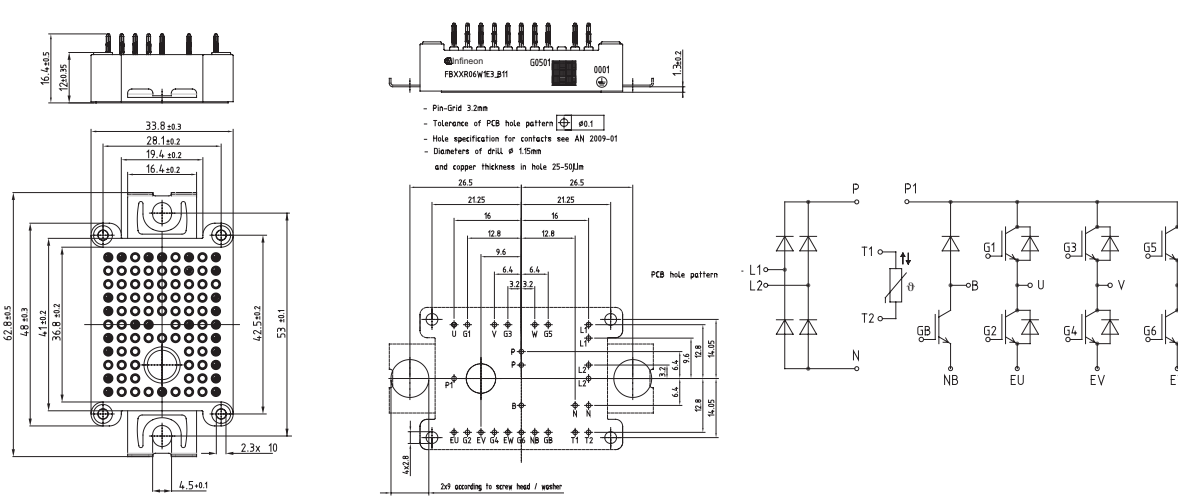
L_B1d



Pinpositions with tolerance ± 0.4

EasyPACK 1B

L_B1k

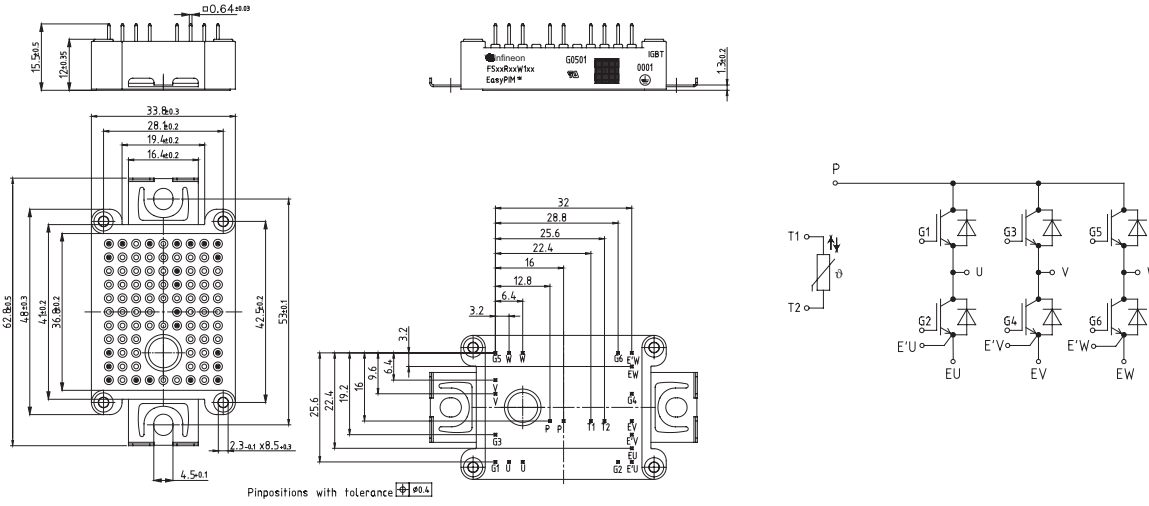


- Pin-Grid 3.2mm
- Tolerance of PCB hole pattern ± 0.1
- Hole specification for contacts see AN 2009-01
- Diameter of drill $\varnothing 1.5$ mm and copper thickness in hole 25-50µm

2xØ according to screw head / washer

EasyPACK 1B

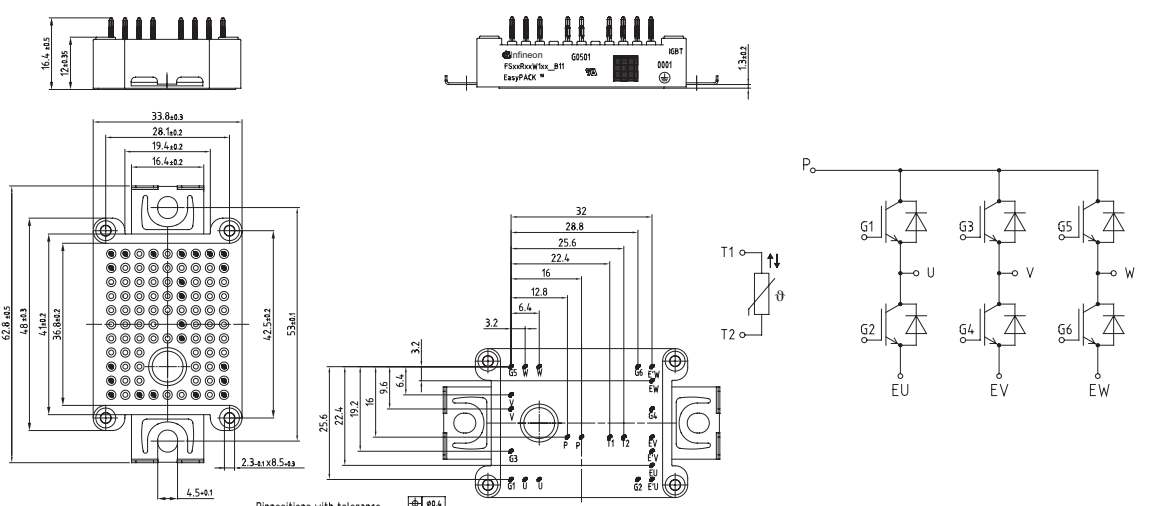
L_B1e



IGBT
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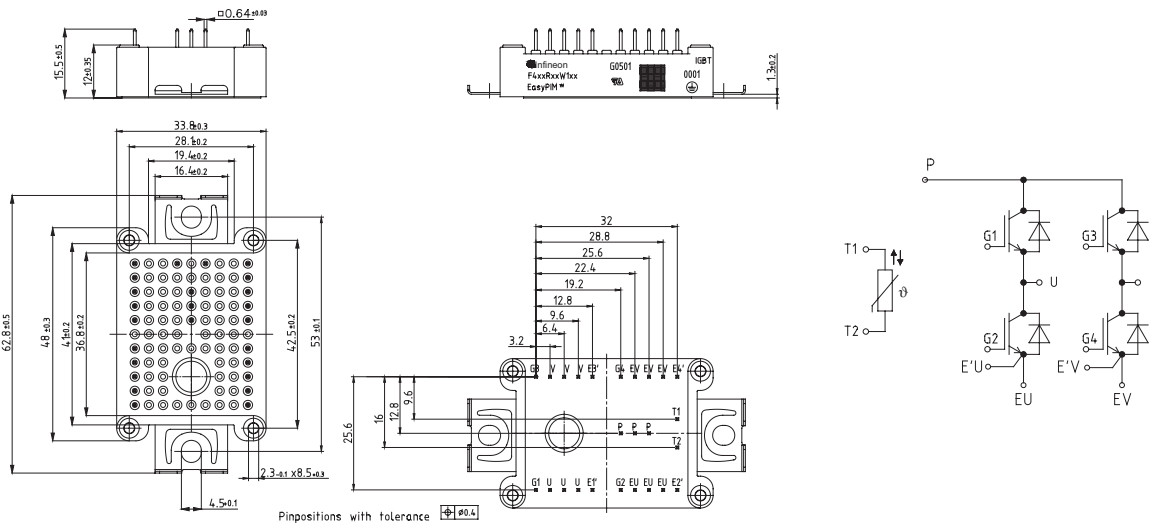
EasyPACK 1B

L_B1j

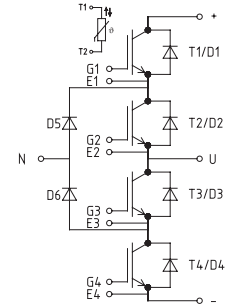
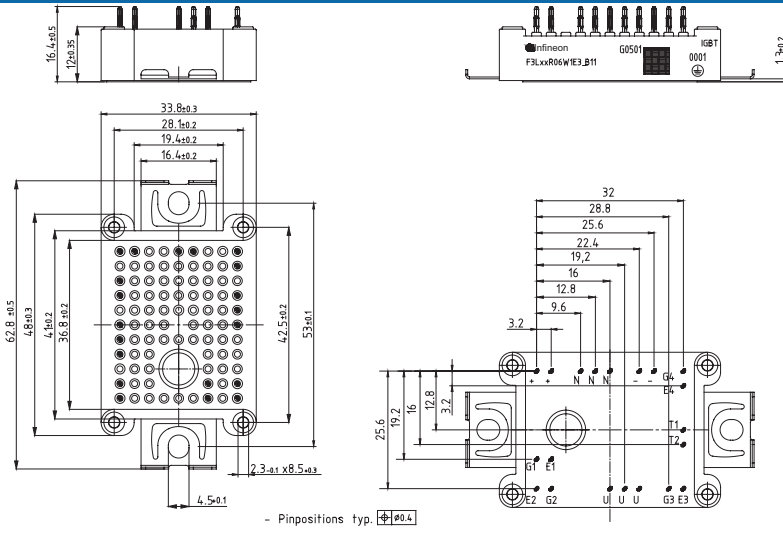


EasyFourPACK 1B

L_B1f

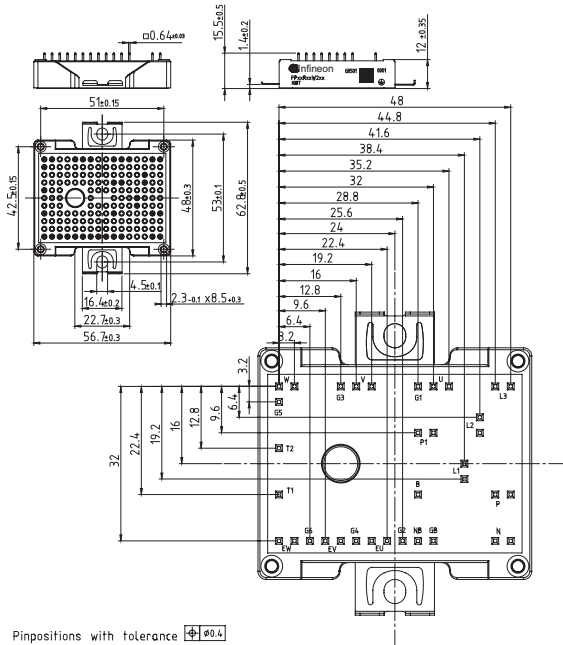


IGBT
Low Power

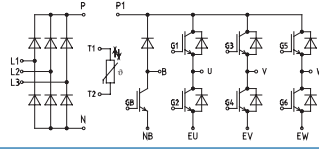


EasyPIM™ 2B

L_B2a

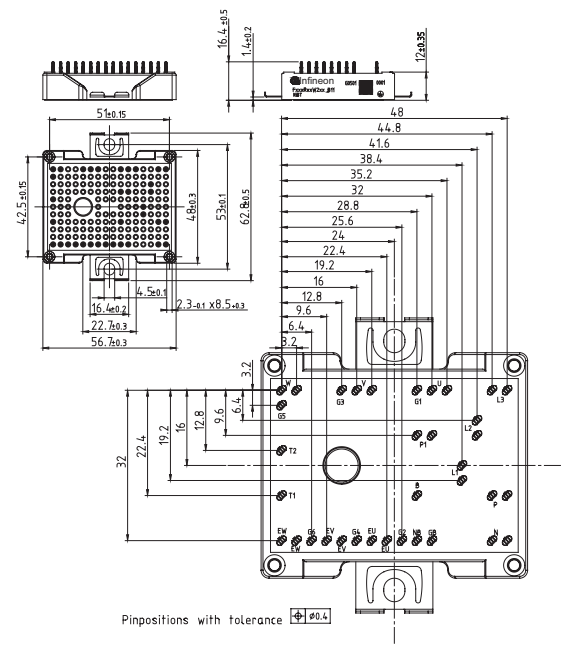


Pinpositions with tolerance ± 0.4

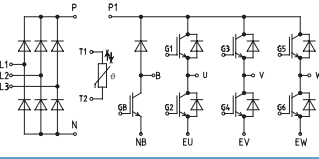


EasyPIM™ 2B

L_B2b

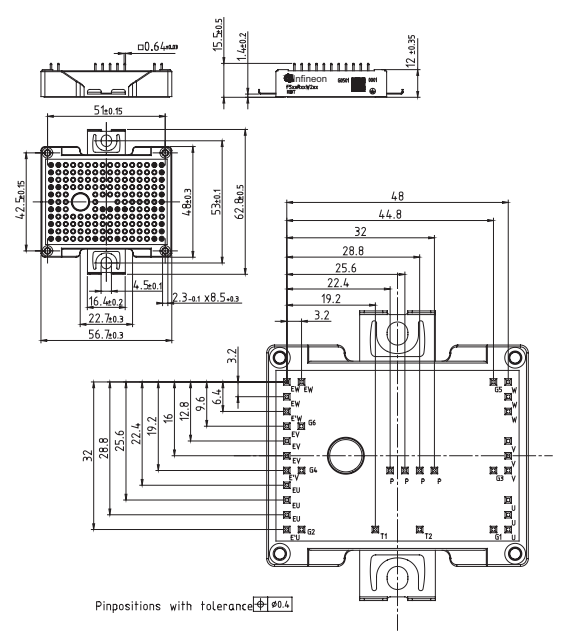


Pinpositions with tolerance ± 0.4

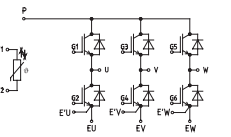


EasyPACK 2B

L_B2c

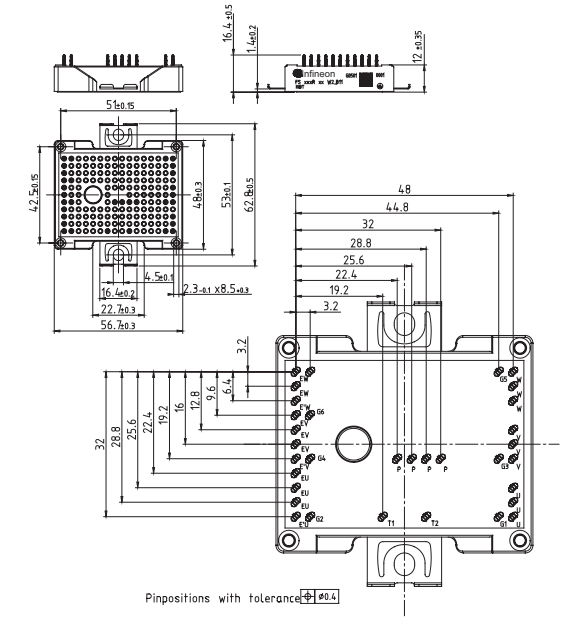


Pinpositions with tolerance ± 0.4

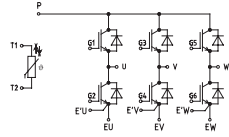


EasyPACK 2B

L_B2d



Pinpositions with tolerance ± 0.4



IGBT
Low Power

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каталог, описание, технические, характеристики, datasheet, параметры, маркировка, габариты, фото

QR код

