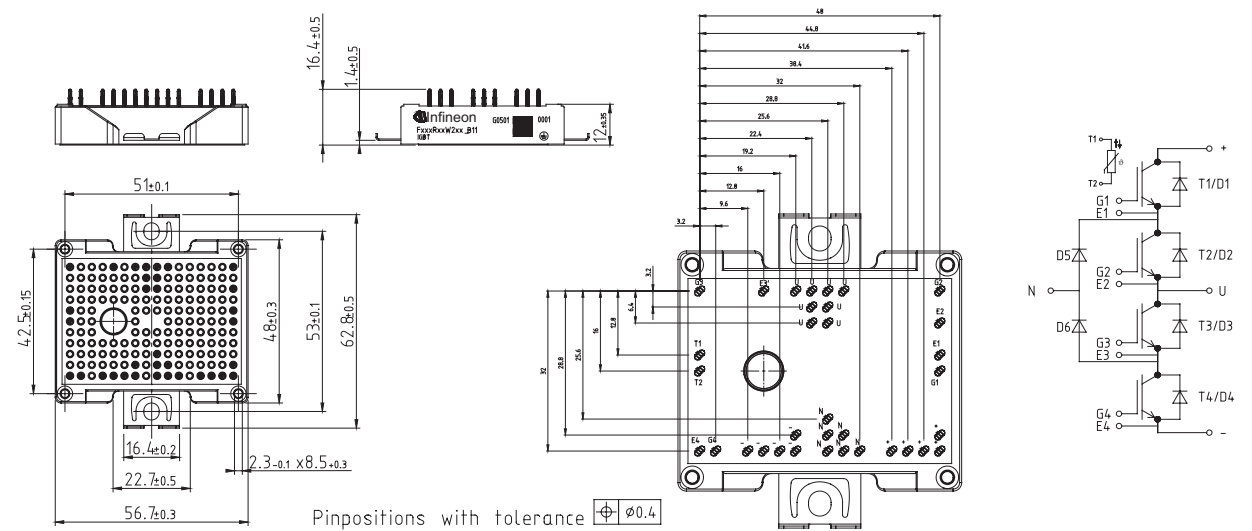
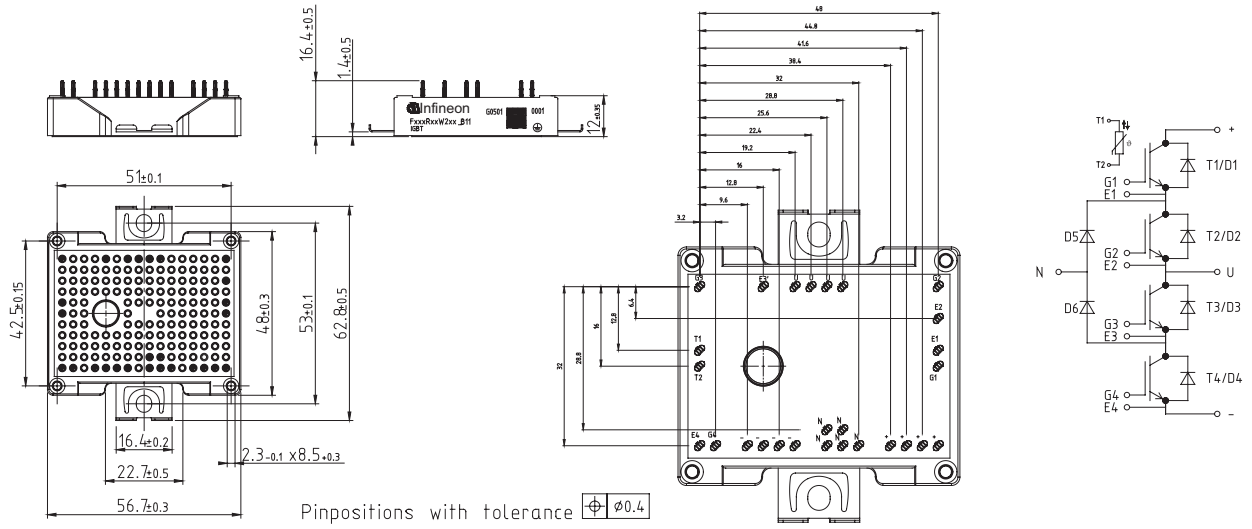


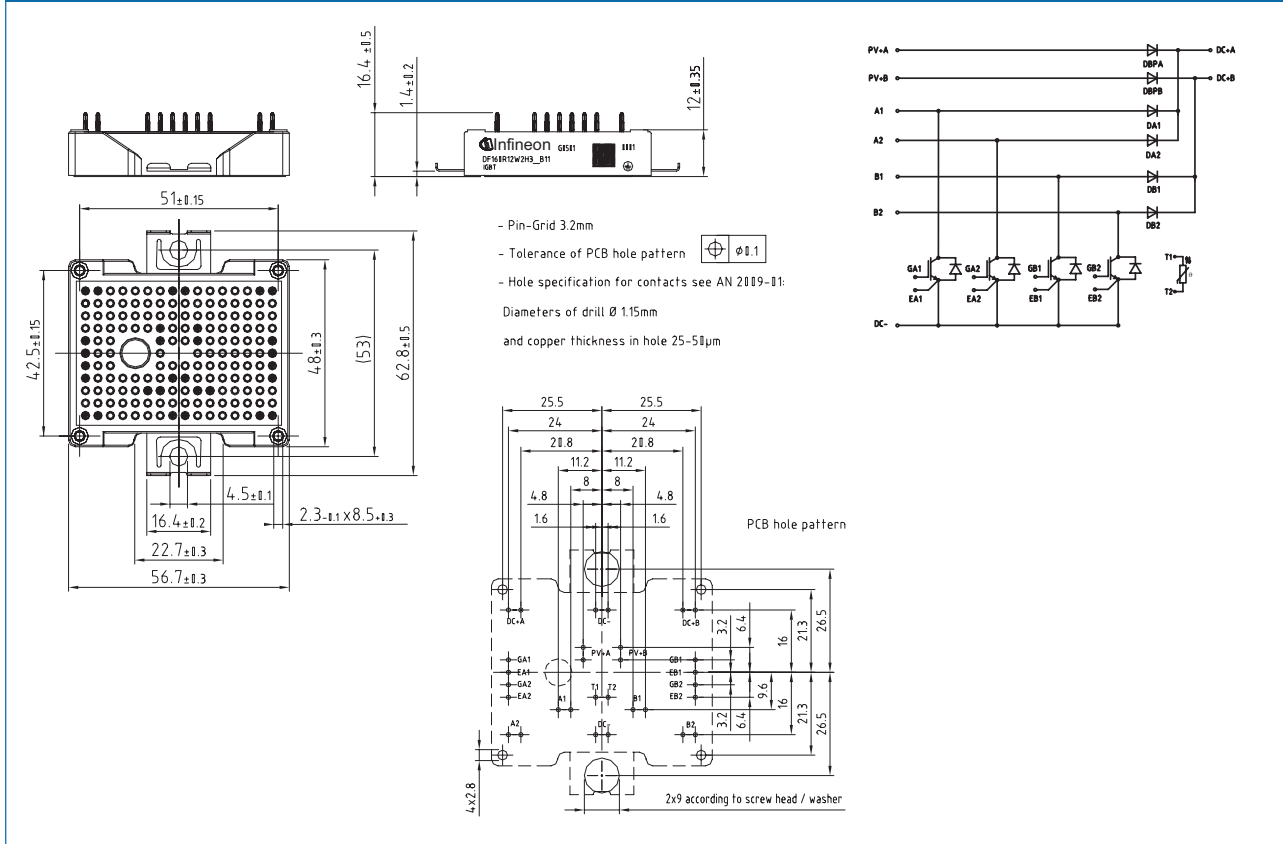
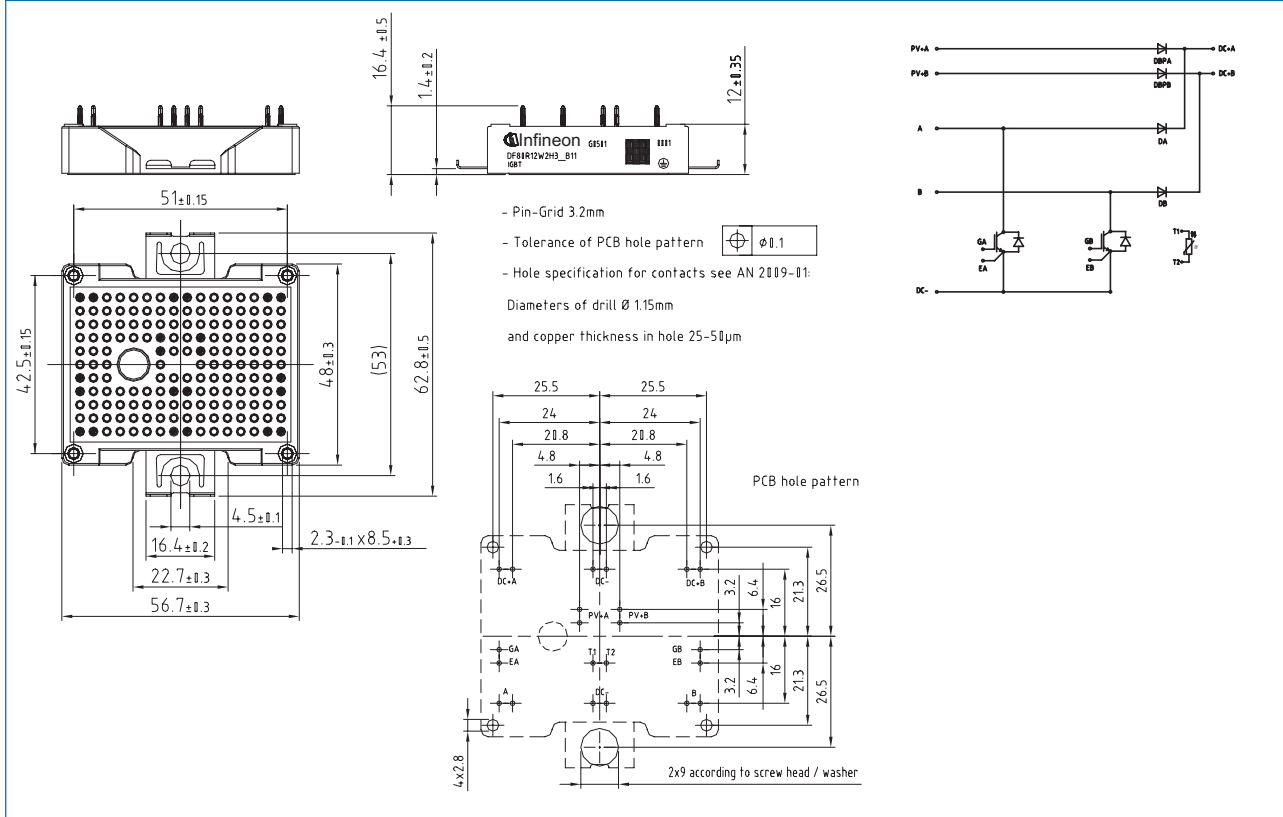
Модули, IGBT, Еурес, Infineon, купить в Минске tel. +375447584780
www.fotorele.net www.tiristor.by радиодетали, электронные компоненты
email minsk17@tut.by tel.+375 29 758 47 80 МТС

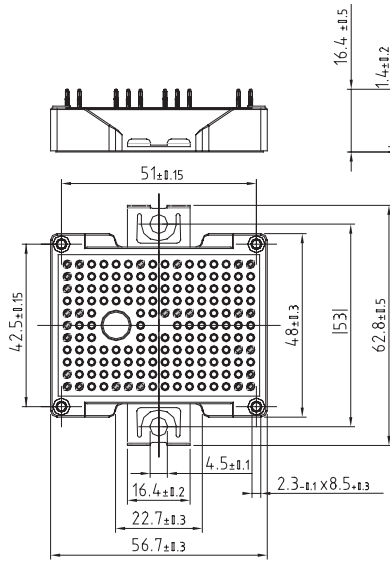
каталог, описание, технические, характеристики, datasheet, параметры, маркировка, габариты, фото

QR код

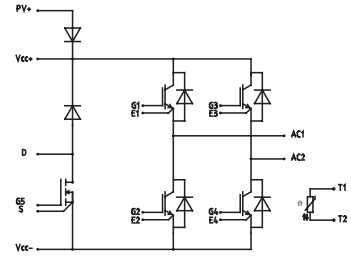
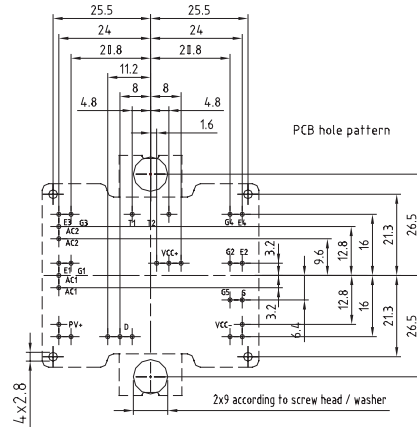


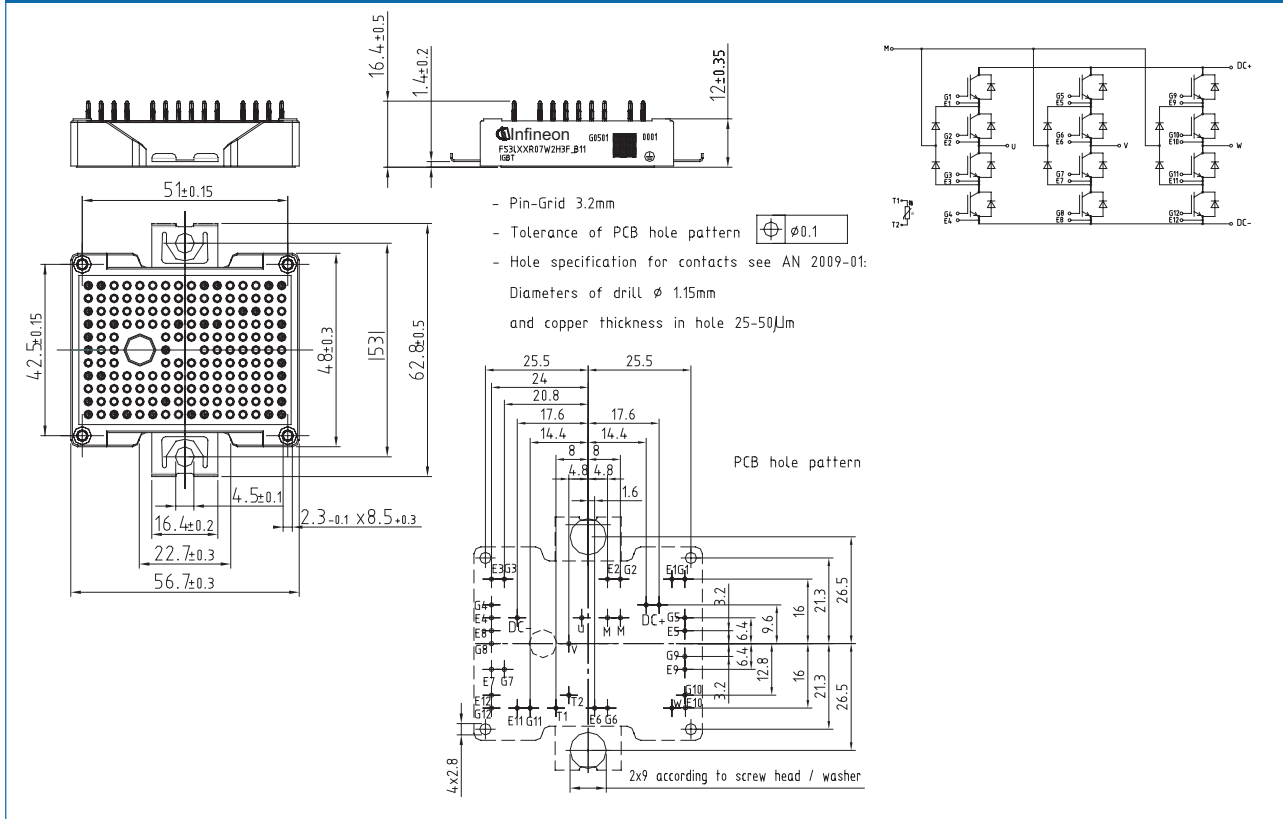
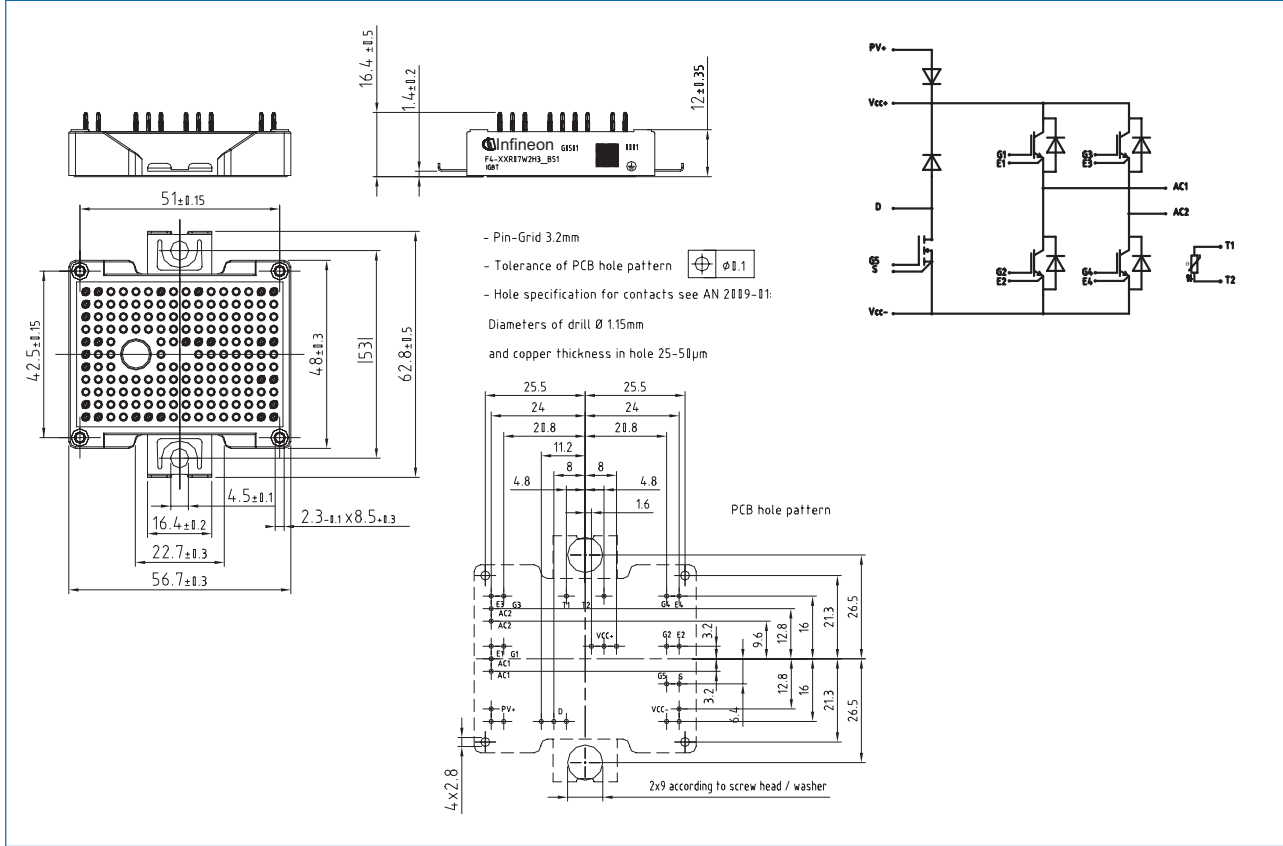




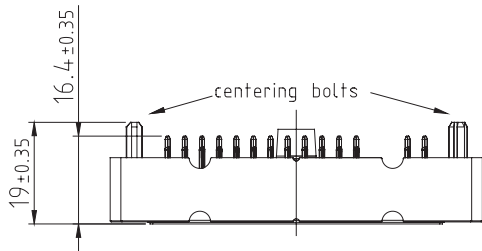
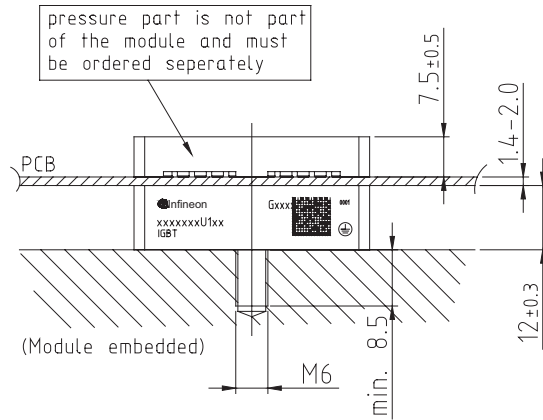
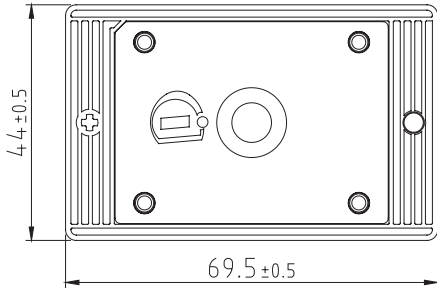


- Pin-Grid 3.2mm
- Tolerance of PCB hole pattern $\phi 1.1$
- Hole specification for contacts see AN 2009-01:
Diameters of drill $\phi 1.15$ mm
and copper thickness in hole 25-50 μ m

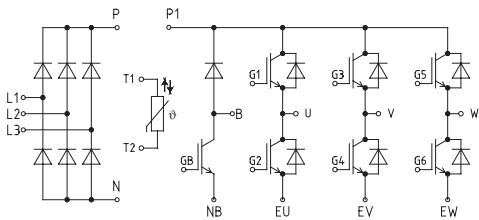
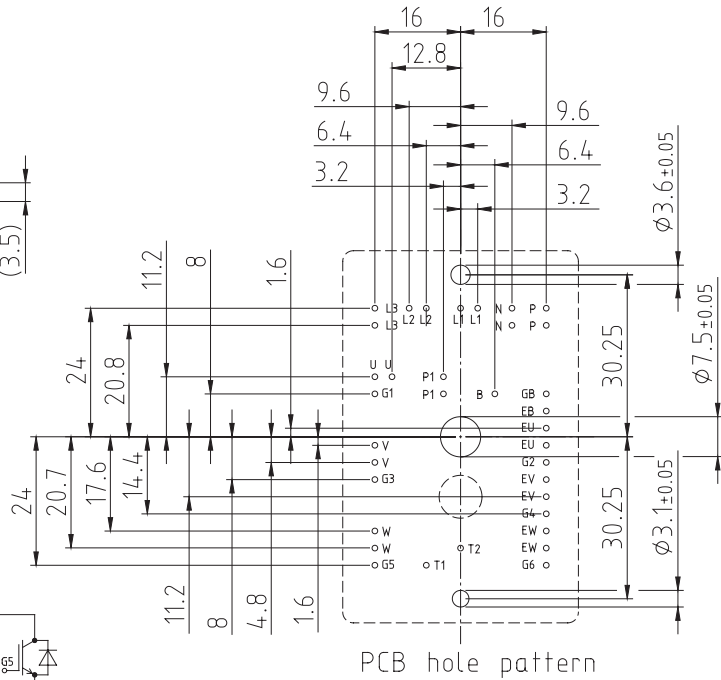
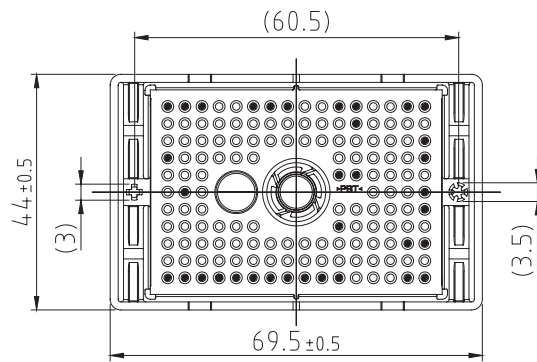




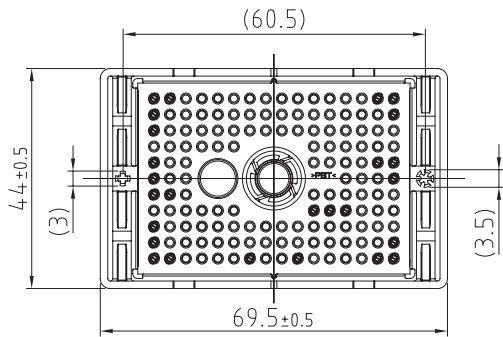
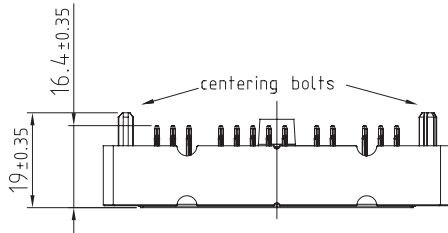
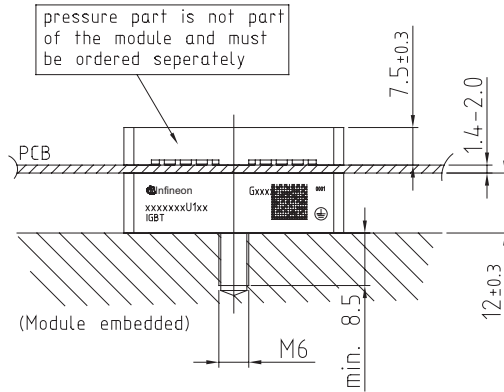
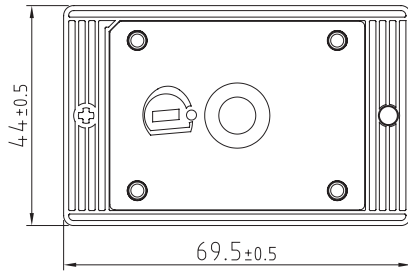
top view of pressure part



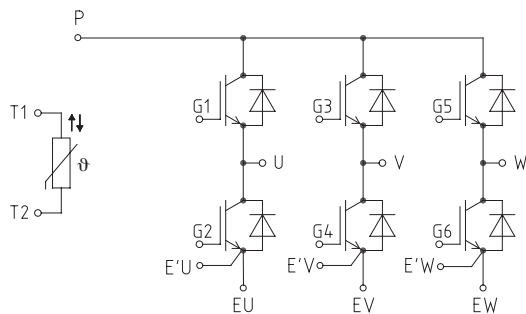
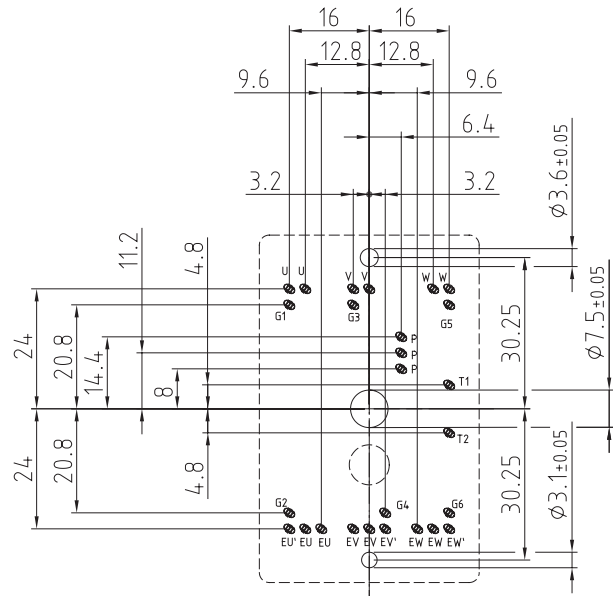
- Recommended screw:
M6 counter sunk (acc. to ISO14581 or DIN7991)
- Pin-Grid 3.2mm
- Tolerance of PCB hole pattern ± 0.1
- Hole specification for contacts see AN 2009-09
Diameters of plated holes $\phi 1.0\text{mm}^{+0.09}_{-0.06}$
Diameters of drill $\phi 1.15\text{mm}$



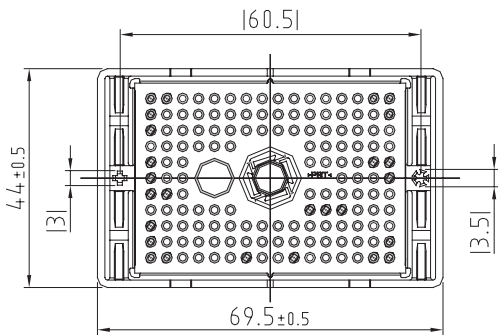
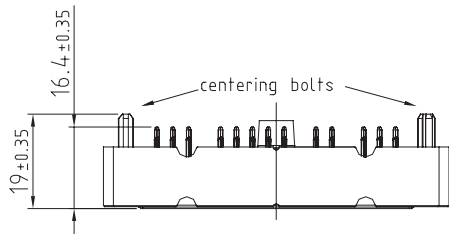
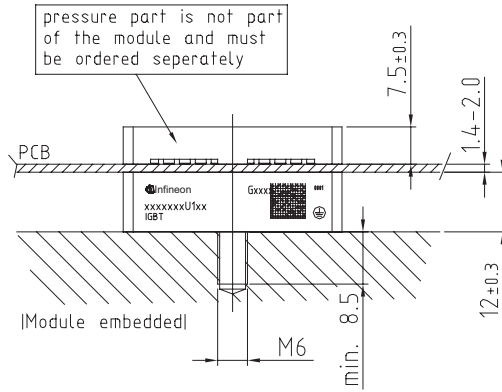
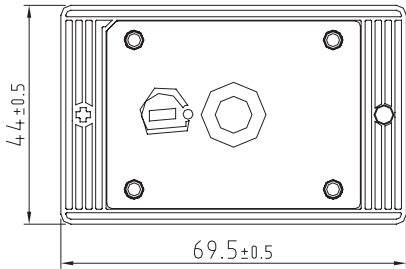
top view of pressure part



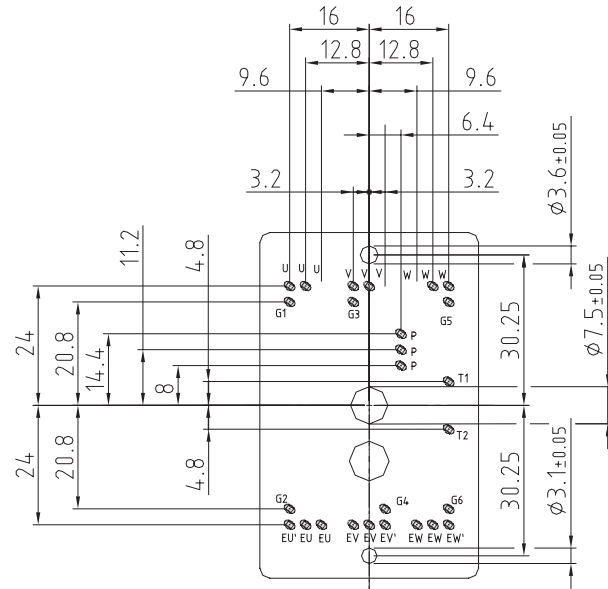
- Recommended screw: M6 counter sunk (acc. to ISO14581 or DIN7991)
- Pin-Grid 3.2mm
- Tolerance of PCB hole pattern $\oplus \phi 0.1$
- Hole specification for contacts see AN 2009-09
 Diameters of plated holes $\phi 1.0\text{mm}^{+0.09}_{-0.06}$
 Diameters of drill $\phi 1.15\text{mm}$



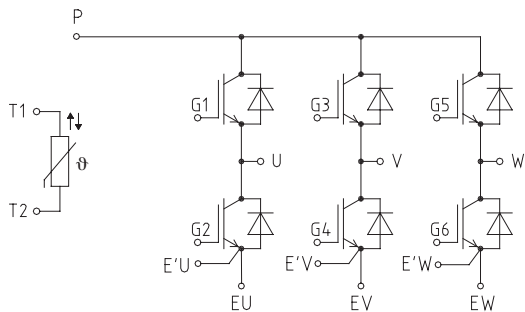
top view of pressure part



- Recommended screw: M6 counter sunk lacc. to ISO14581 or DIN7991
- Pin-Grid 3.2mm
- Tolerance of PCB hole pattern ± 0.1
- Hole specification for contacts see AN 2009-09
 Diameters of plated holes $\phi 1.0\text{mm}^{+0.09}_{-0.06}$
 Diameters of drill $\phi 1.15\text{mm}$

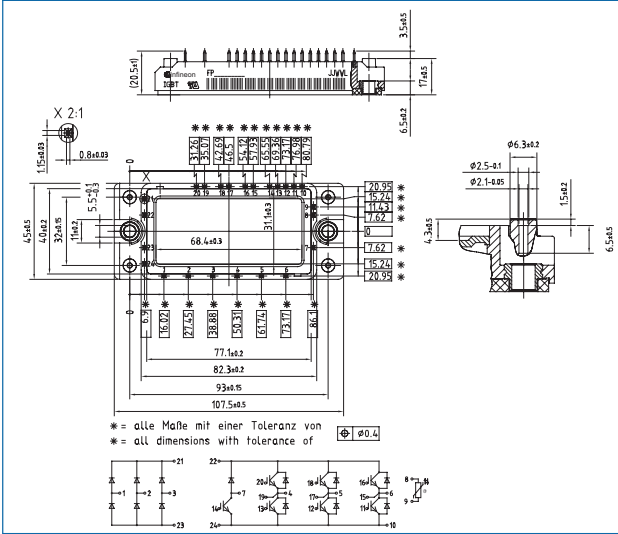


PCB hole pattern



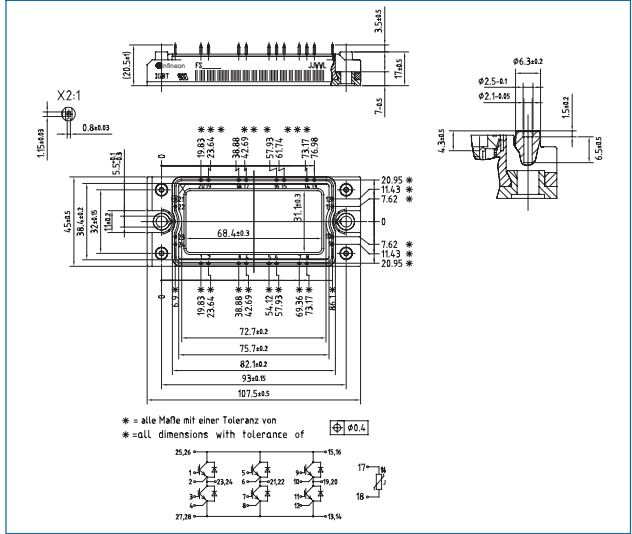
EconoPIM™ C

M_E2a



EconoPACK™ 2B

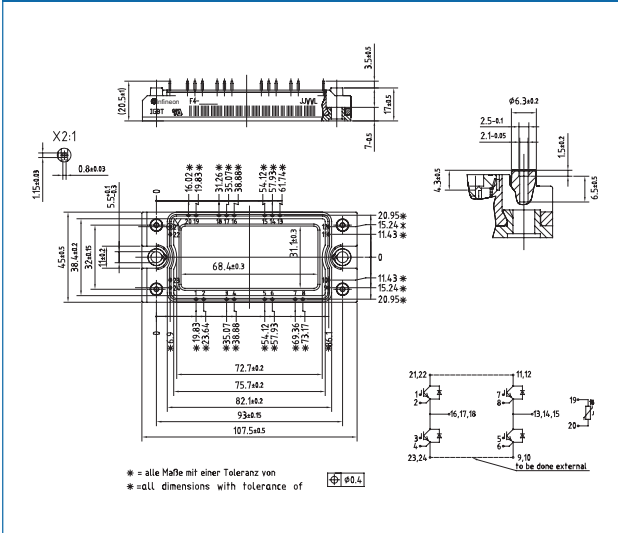
M_E2b



IGBT Low Power

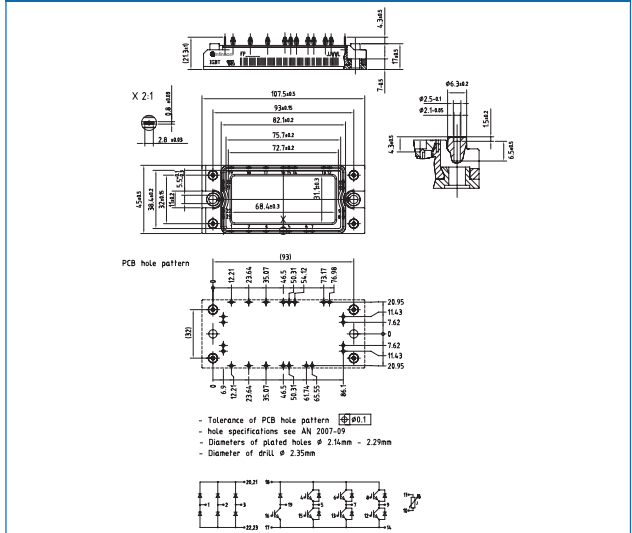
EconoPACK™ 2B FourPACK

M_E2e



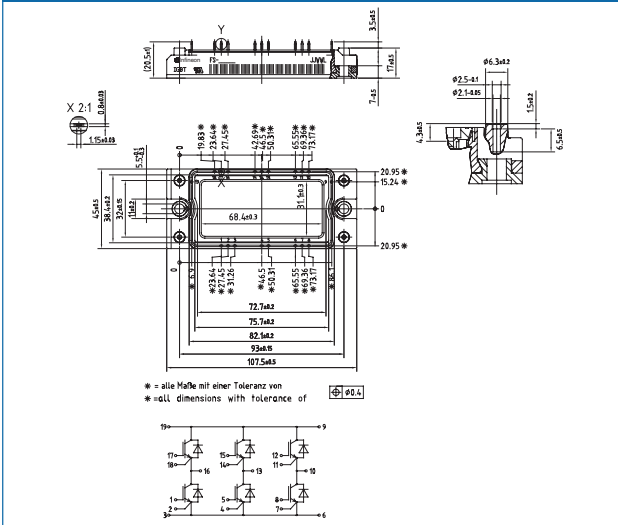
EconoPIM™ 2B PressFIT

M_E2h



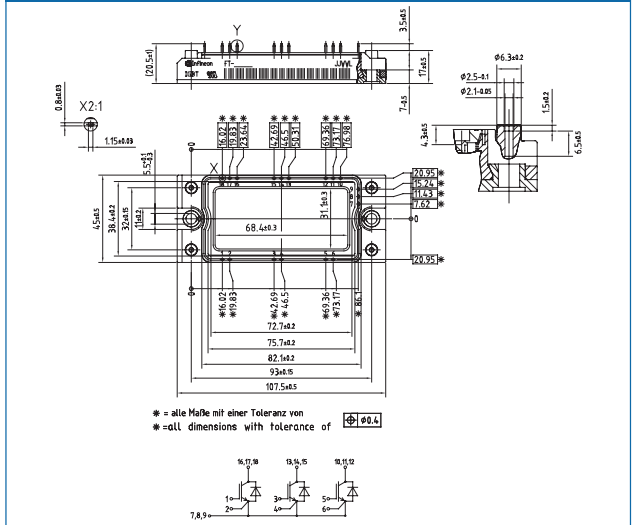
EconoPACK™ 2B

M_E2g



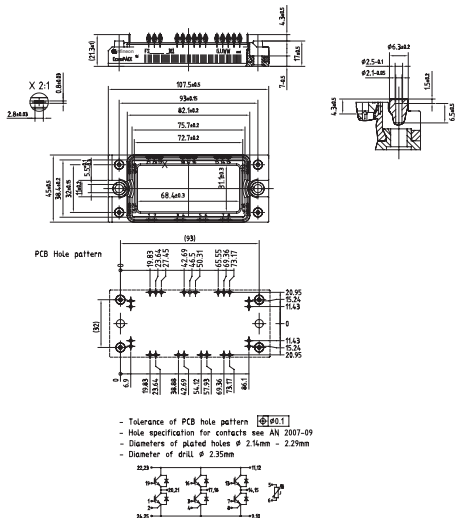
EconoPACK™ 2B (TriPACK-Low)

M_E2f



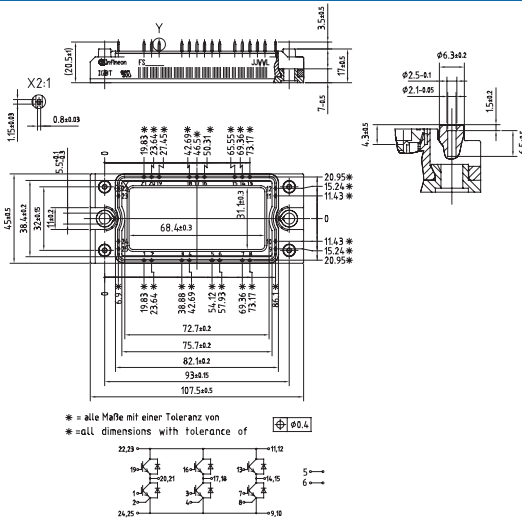
EconoPACK™ 2B PressFIT

M_E2k



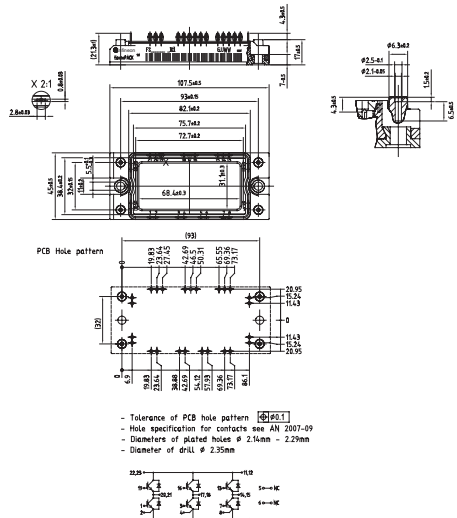
EconoPACK™ 2B

M_E2l



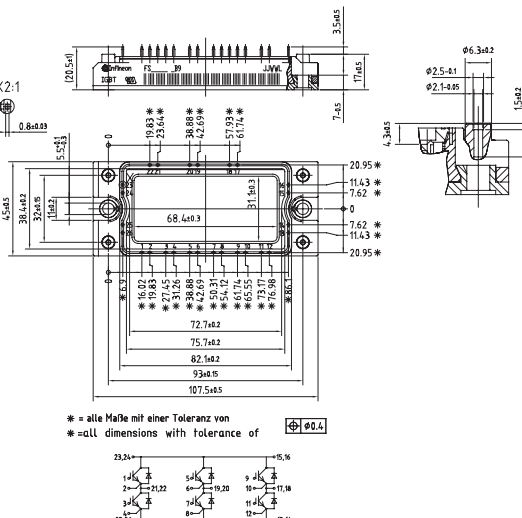
EconoPACK™ 2B PressFIT

M_E2j



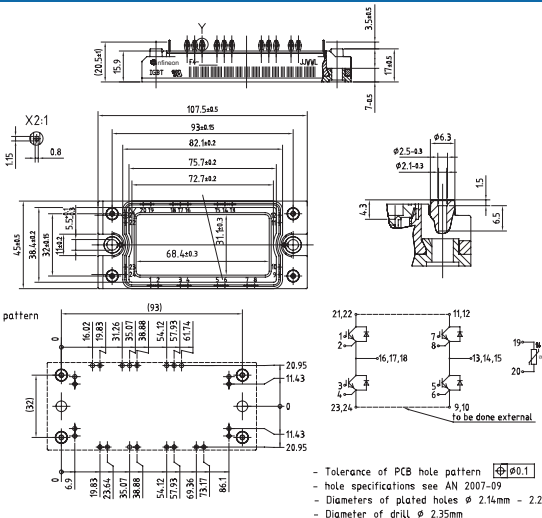
EconoPACK™ 2B

M_E2l



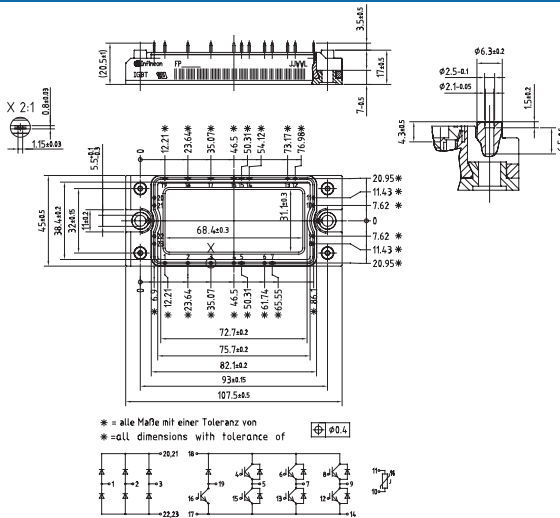
EconoPACK™ 2B FourPACK PressFIT

M_E2c



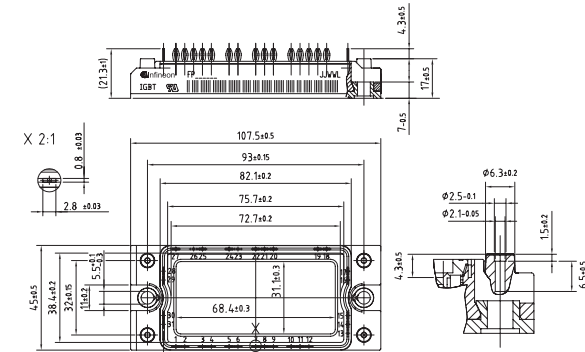
EconoPIM™ 2B

M_E2m

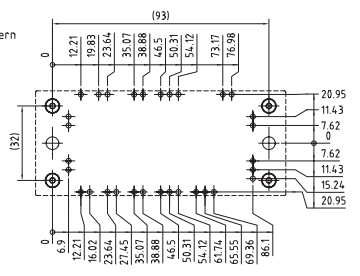


EconoPIM™ 2B PressFIT

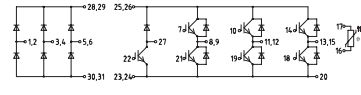
M_E2n



PCB hole pattern

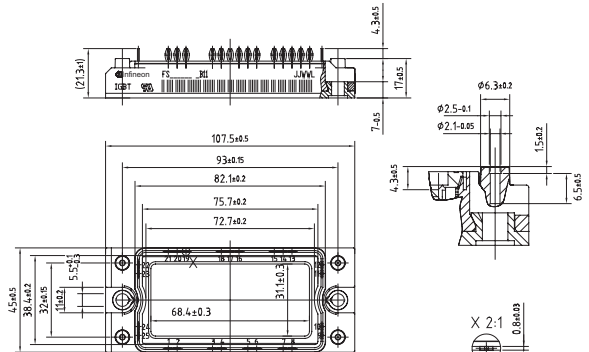


- Tolerance of PCB hole pattern $\pm \phi 0.1$
- hole specifications see AN 2007-09
- Diameters of plated holes ϕ 2.14mm - 2.29mm
- Diameter of drill ϕ 2.35mm

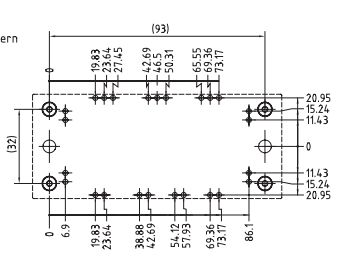


EconoPACK™ 2B PressFIT

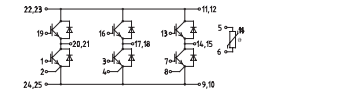
M_E2p



PCB hole pattern

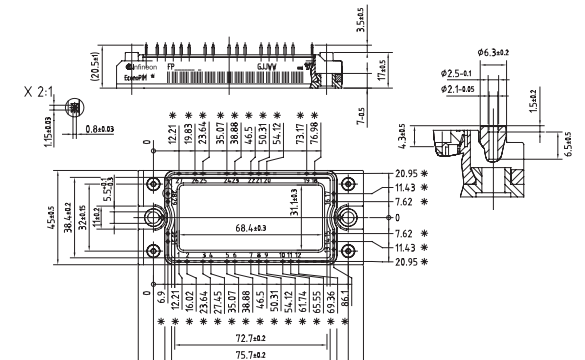


- Tolerance of PCB hole pattern $\pm \phi 0.1$
- hole specifications see AN 2007-09
- Diameters of plated holes ϕ 2.14mm - 2.29mm
- Diameter of drill ϕ 2.35mm

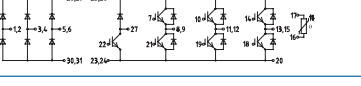


EconoPIM™ 2B

M_E2o

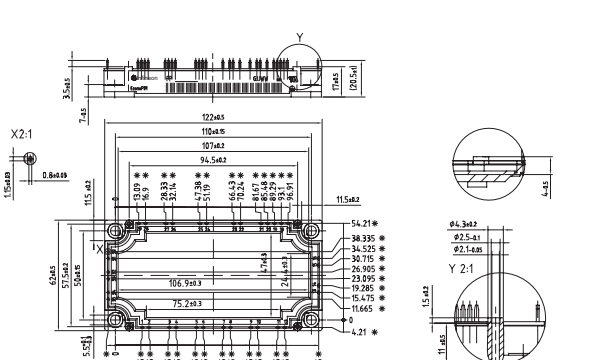


- * = alle Maße mit einer Toleranz von $\pm \phi 0.4$
- * = all dimensions with tolerance of $\pm \phi 0.4$

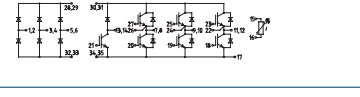


EconoPIM™ 3B

M_E3a



- * = alle Maße mit einer Toleranz von $\pm \phi 0.5$
- * = all dimensions with tolerance of $\pm \phi 0.5$



IGBT
Low Power

Package Units

IGBT Low Power Modules

EasyPIM™ Modules	Housing Size (overall)	Packing Units
EasyPIM™ 750	25,4 mm x 35,6 mm	40
EasyPIM™ 1	33,0 mm x 45,6 mm	20
EasyPIM™ 1B	33,8 mm x 48,0 mm	24
EasyPIM™ 2	45,6 mm x 55,9 mm	20
EasyPIM™ 2B	48,0 mm x 56,7mm	15

EasyPACK Modules	Housing Size (overall)	Packing Units
EasyPACK 750	25,4 mm x 35,6 mm	40
EasyPACK 1	33,0 mm x 45,6 mm	20
EasyPACK 1B	33,8 mm x 48,0 mm	24
EasyPACK 2	45,6 mm x 55,9 mm	20
EasyPACK 2B	48,0 mm x 56,7mm	15

EasyDUAL Modules	Housing Size (overall)	Packing Units
EasyDUAL 2	45,6 mm x 55,9 mm	20

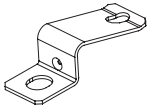
EconoPIM™ Modules	Housing Size (overall)	Packing Units
EconoPIM™ 2	45,0 mm x 107,0 mm	10
EconoPIM™ 3	62,0 mm x 122,0 mm	10

EconoPACK™ Modules	Housing Size (overall)	Packing Units
EconoPACK™ 2	45,0 mm x 107,0 mm	10
EconoPACK™ 3	62,0 mm x 122,0 mm	10

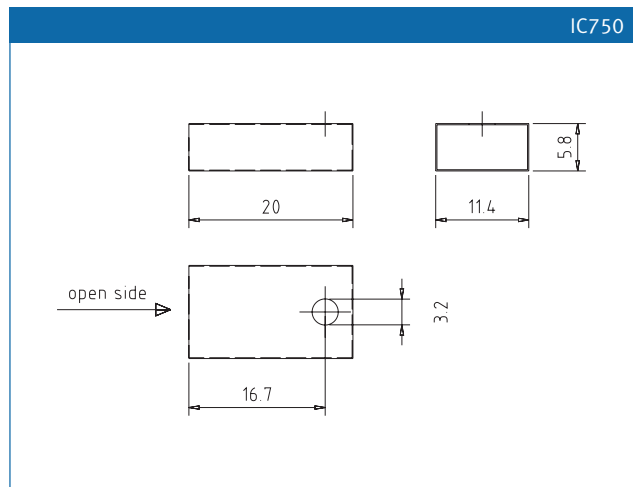
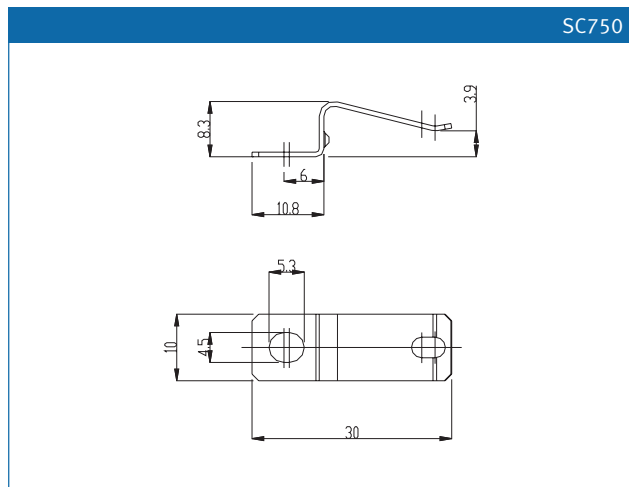
SmartPIM Modules	Housing Size (overall)	Packing Units
SmartPIM 1	44,0 mm x 69,5 mm	30
Counterholder	44,0 mm x 69,5mm	30

SmartPACK Modules	Housing Size (overall)	Packing Units
SmartPACK 1	44,0 mm x 69,5 mm	30
Counterholder	44,0 mm x 69,5 mm	30

Mounting Hardware for EasyPIM™, EasyPACK, EasyBRIDGE and EasyDUAL Modules

	Suitable for	Type	Outline	Part-No.
 SC750	Easy750 housing	ScrewClamp Easy750	SC750	24126
	Easy750housing	IsolationCap Easy750	IC750	27332

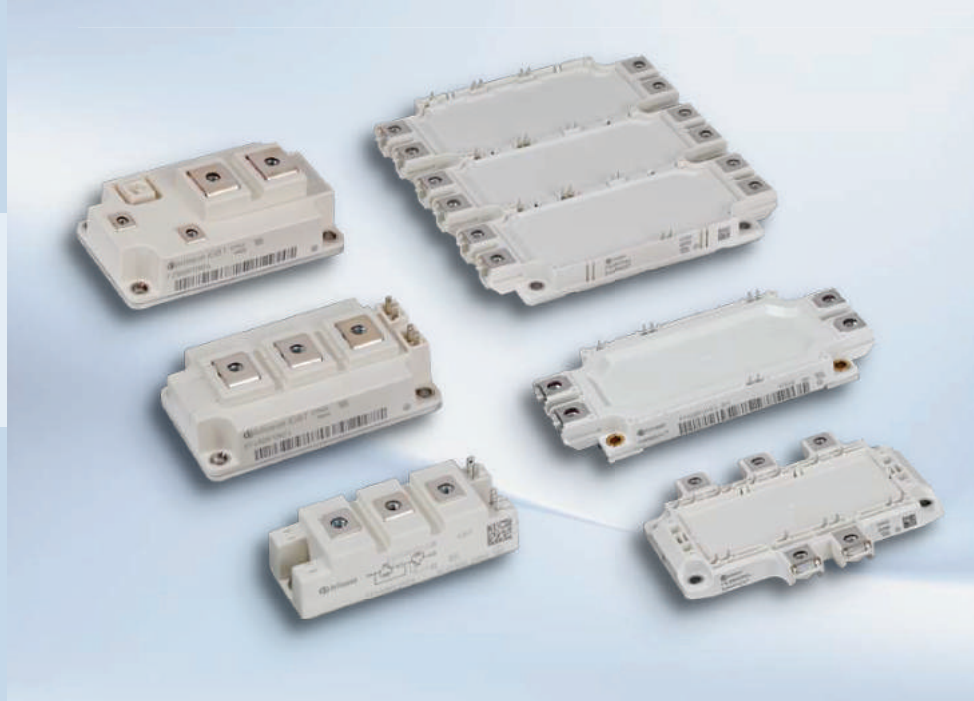
IGBT
Low Power



Links

Application Notes, Product Briefs, Flyers and Brochures	Type	Redirects
Easy PressFIT - Mounting Instructions	Application Note	http://www.infineon.com/easy-pressfit-appnote
Smart - Evaluation Board	Application Note	http://www.infineon.com/smart1-evalboard-appnote
Easy B-Series - Mounting Instructions	Application Note (english)	http://www.infineon.com/easy-appnote
Econo (PressFIT)- Mounting Instructions	Application Note (english)	http://www.infineon.com/econo-pressfit-appnote
Smart - Mounting Instructions	Application Note (english)	http://www.infineon.com/smart-appnote
Easy B-Serien - Mounting Instructions	Application Note (german)	http://www.infineon.com/easy-appnote-german
Econo (PressFIT) - Mounting Instructions	Application Note (german)	http://www.infineon.com/econo-pressfit-appnote-german
Smart - Mounting Instructions	Application Note (german)	http://www.infineon.com/smart-appnote-german
3-Level Inverter 650V / 1200V	Product Brief	http://www.infineon.com/3-level-product-brief
Easy B-series modules and Easy750	Product Brief	http://www.infineon.com/easyb-product-brief
Easy & Econo Modules	Product Brief	http://www.infineon.com/easy-econo-product-brief
SmartPIM and SmartPACK - Self-acting PressFIT assembly	Product Brief	http://www.infineon.com/smart-product-brief
PressFIT - Mounting technology	Product Information	http://www.infineon.com/pressfit-product-information
EasyPACK 3-Level Modules	Webpage	http://www.infineon.com/3-level-easy
EconoPIM™ / EconoPACK™ 650V IGBT4	Webpage	http://www.infineon.com/econo650v
Thermal Interface Material	Webpage	http://www.infineon.com/tim
SmartPIM and SmartPACK	Webpage	http://www.infineon.com/smart
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

Medium Power Modules

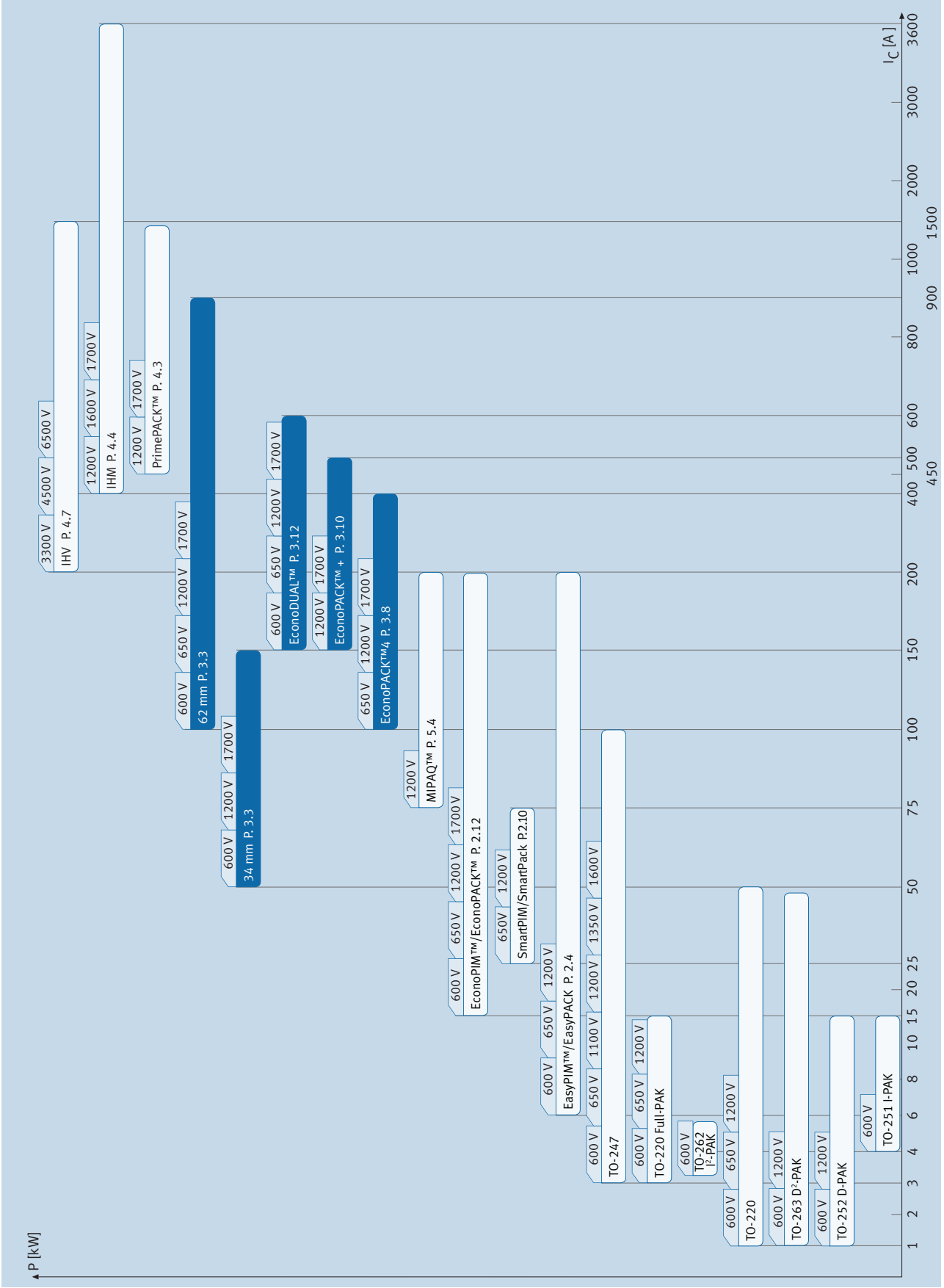


Flexibility, optimal electrical performance, highest reliability. These are the keywords for a successful inverter design. The 34 and 62 mm packages as well as the EconoPACK™ +, EconoDUAL™ and EconoPACK™ 4 modules are the right choice for your design.

Our well known 34 mm and 62 mm standard IGBT modules are available in various configurations like Single Switch, Half Bridge, Chopper and Diode modules. Besides the IGBT chip technologies for low switching losses, saturation voltage and high switching frequency, the 34mm and 62mm modules are also available with the state-of-the-art IGBT4 Trench with Field Stop. The product portfolio covers current ranges from 50 A up to 900 A at 600V/650V/1200V/1700V.






The EconoPACK™ +, EconoDUAL™ and EconoPACK™ 4 modules combine 17 mm height and leading edge IGBT technology for highest power density, enabling inverter applications in the power range from 20 kVA to 250 kVA and above. The key for parallel operation is the symmetrical design of the module, resulting in an optimized current sharing between the IGBT half bridges. This concept allows to create one inverter design for all line voltages up to 690 V AC. The EconoPACK™ +, EconoPACK™ 4 and EconoDUAL™ product lines offer the complete current range from 50 A up to 600 A at 600 V/650 V/1200 V/1700 V. Furthermore, all of these packages are now available with solderless high reliable PressFIT control terminals.

IGBT
Medium Power







IGBT Medium Power Modules

34 mm and 62 mm Modules

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	
 dual modules	IGBT2 Low Loss						
	BSM50GB60DLC	600	50	1,95	280	0,44	M_34a/3.15
	BSM75GB60DLC	600	75	1,95	355	0,35	M_34a/3.15
	BSM100GB60DLC	600	100	1,95	445	0,28	M_34a/3.15
	BSM150GB60DLC	600	150	1,95	595	0,21	M_34a/3.15
	BSM200GB60DLC	600	200	1,95	730	0,17	M_34a/3.15
	IGBT3						
	FF200R06KE3	600	200	1,45	680	0,22	M_62a/3.15
	FF300R06KE3	600	300	1,45	940	0,16	M_62a/3.15
FF400R06KE3	600	400	1,45	1250	0,12	M_62a/3.15	
 FD chopper	IGBT3						
	FD300R06KE3	600	300	1,45	640	0,16	M_62a/3.15

IGBT
Medium Power

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	
 dual modules	IGBT4						
	◆ FF300R07KE4	650	300	1,55	940	0,16	M_62a/3.15
	◆ FF400R07KE4	650	400	1,55	1250	0,12	M_62a/3.15

◆ New type ..._B1 with auxiliary collector sense

IGBT Medium Power Modules

34 mm and 62 mm Modules

IGBT
Medium 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	
 dual modules	IGBT3						
	FF150R12KE3G	1200	150	1,70	780	0,16	M_62a/3.15
	FF200R12KE3	1200	200	1,70	1040	0,12	M_62a/3.15
	FF300R12KE3	1200	300	1,70	1450	0,085	M_62a/3.15
	FF400R12KE3	1200	400	1,70	2000	0,062	M_62a/3.15
	IGBT3 Fast						
	FF150R12KT3G	1200	150	1,70	780	0,16	M_62a/3.15
	FF200R12KT3	1200	200	1,70	1050	0,12	M_62a/3.15
 dual modules	IGBT4 Fast						
	FF50R12RT4	1200	50	1,75	285	0,53	M_34a/3.15
	FF75R12RT4	1200	75	1,75	395	0,38	M_34a/3.15
	FF100R12RT4	1200	100	1,75	555	0,27	M_34a/3.15
	FF150R12RT4	1200	150	1,75	790	0,19	M_34a/3.15
	FF200R12KT4	1200	200	1,75	1100	0,135	M_62a/3.15
	FF300R12KT4	1200	300	1,75	1600	0,093	M_62a/3.15
	FF450R12KT4	1200	450	1,75	2400	0,062	M_62a/3.15
	IGBT4						
	FF200R12KE4	1200	200	1,75	1100	0,135	M_62a/3.15
	FF300R12KE4	1200	300	1,75	1600	0,093	M_62a/3.15
	FF450R12KE4	1200	450	1,75	2400	0,062	M_62a/3.15
	IGBT2 Fast						
	FF100R12KS4	1200	100	3,20	780	0,160	M_62a/3.15
	FF150R12KS4	1200	150	3,20	1200	0,100	M_62a/3.15
	FF200R12KS4	1200	200	3,20	1400	0,090	M_62a/3.15
	FF300R12KS4	1200	300	3,20	1950	0,060	M_62a/3.15

IGBT Medium Power Modules

34 mm and 62 mm Modules

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	
 FD chopper	IGBT2 Fast FD300R12KS4	1200	300	3,20	1950	0,060	M_62a/3.15
	IGBT3 FD200R12KE3	1200	200	1,70	1040	0,120	M_62a/3.15
	FD300R12KE3	1200	300	1,70	1450	0,085	M_62a/3.15
	FD400R12KE3	1200	400	1,70	2000	0,062	M_62a/3.15
	IGBT4 Fast FD150R12RT4	1200	150	1,75	790	0,19	M_34a/3.15
 DF chopper	IGBT3 DF200R12KE3	1200	200	1,70	1040	0,120	M_62a/3.15
	DF300R12KE3	1200	300	1,70	1450	0,085	M_62a/3.15
	DF400R12KE3	1200	400	1,70	2000	0,062	M_62a/3.15
	IGBT4 Fast DF150R12RT4	1200	150	1,75	790	0,190	M_34a/3.15
 single switches	IGBT3 FZ300R12KE3G	1200	300	1,70	1450	0,085	M_62b/3.15
	FZ400R12KE3	1200	400	1,70	2250	0,055	M_62b/3.15
	FZ400R12KE3_B1	1200	400	1,70	2250	0,055	M_62c/ 3.15
	FZ600R12KE3	1200	600	1,70	2750	0,045	M_62b/3.15
	FZ600R12KE3_B1	1200	600	1,70	2750	0,045	M_62c/ 3.15
	FZ800R12KE3	1200	800	1,70	3550	0,035	M_62b/3.15
	IGBT4 FZ400R12KE4	1200	400	1,75	2400	0,062	M_62b/3.15
	FZ600R12KE4	1200	600	1,75	3000	0,050	M_62b/3.15
	FZ900R12KE4	1200	900	1,75	4300	0,035	M_62b/3.15
	FZ400R12KP4	1200	400	1,70	2400	0,062	M_62b/3.15
	FZ600R12KP4	1200	600	1,70	3000	0,050	M_62b/3.15
	FZ900R12KP4	1200	900	1,70	4300	0,035	M_62b/3.15
	IGBT2 Fast FZ400R12KS4	1200	400	3,20	2500	0,050	M_62b/3.15
	FZ600R12KS4	1200	600	3,20	3900	0,030	M_62b/3.15



..._B1 with auxiliary collector sense



IGBT
Medium Power

IGBT Medium Power Modules

34 mm and 62 mm Modules

IGBT
Medium Power

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	
 dual modules	IGBT2 Standard						
	BSM50GB170DN2	1700	50	3,40	500	0,250	M_34a/3.15
	BSM75GB170DN2	1700	75	3,40	625	0,200	M_34a/3.15
	IGBT3						
	FF200R17KE3	1700	200	2,00	1250	0,100	M_62a/3.15
	FF300R17KE3	1700	300	2,00	1470	0,085	M_62a/3.15
	IGBT4						
FF150R17KE4	1700	150	1,95	1150	0,130	M_62a/3.15	
FF200R17KE4	1700	200	1,95	1650	0,090	M_62a/3.15	
FF300R17KE4	1700	300	1,95	1800	0,083	M_62a/3.15	
 single switches	IGBT3						
	FZ400R17KE3	1700	400	2,00	2270	0,055	M_62b/3.15
	FZ600R17KE3	1700	600	2,00	3120	0,040	M_62b/3.15
	IGBT4						
	FZ400R17KE4	1700	400	1,95	2500	0,060	M_62b/3.15
FZ600R17KE4	1700	600	1,95	3400	0,044	M_62b/3.15	

Diode Modules							
Type	V _{RRM} V	I _C A	V _F V T _{vj} = 25°C typ.	Q _R μAs T _{vj} = 125°C typ.	R _{thjC} K/W max	Outline/ page	
 single diodes	BYM300A120DN2	1200	300	2,30	40	0,125	M_62d/3.15
	BYM600A170DN2	1700	600	2,00	100	0,090	M_62d/3.15
	DZ800S17KE3	1700	800	1,80	345	0,058	M_62d/3.15
 dual diodes	BYM300B170DN2	1700	300	2,20	75	0,120	M_62e/3.15

IGBT Medium Power Modules

34 mm and 62 mm Modules

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	
 single switches with series diode	IGBT2 Fast FD300R12KS4_B5	1200	300	3,20	1950	0,064	M_62a/3.15
	IGBT3 FD400R12KE3_B5	1200	400	1,70	2000	0,062	M_62a/3.15
 dual modules with common emitter	IGBT3 Fast FF200R12KT3_E	1200	200	1,70	1050	0,120	M_62f/3.16
	FF300R12KT3_E	1200	300	1,70	1450	0,085	M_62f/3.16
	FF400R12KT3_E	1200	400	1,70	2000	0,062	M_62f/3.16

..._B5 with series diode

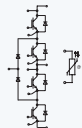

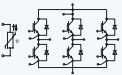
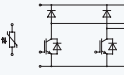
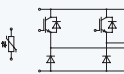
..._E common emitter

IGBT
Medium Power

IGBT Medium Power Modules

EconoPACK™ 4

IGBT
Medium Power

650 V _{CES}							
Type	V _{CES} V	I _C A	V _{CESat} V T _{vj} = 25°C typ.	E _{on} /E _{off} mWs T _{vj} =125°C typ.	R _{thjC} K/W max	Outline/ page	
 3-level one-phase NPC1 topology with NTC	IGBT4						
	◆ F3L200R07PE4	650	200	1,55	2,0/12,5	0,22	M_EP4a/3.17
	◆ F3L300R07PE4	650	300	1,55	2,0/17,5	0,16	M_EP4a/3.17
 3-Level one-phase NPC2 topology with NTC	IGBT4						
	◆ F3L400R07PE4_B26	650	400	1,55	11/26,5	0,125	M_EP4b/3.17
 sixpack with NTC	IGBT4						
	FS100R07PE4	650	100	1,55	1,3/4,9	0,45	M_EP4d/3.18
	FS150R07PE4	650	150	1,55	2,65/7,15	0,35	M_EP4d/3.18
	FS200R07PE4	650	200	1,55	3,55/10,5	0,25	M_EP4d/3.18
 FD Chopper with NTC	IGBT4						
	◆ FD300R07PE4_B6	650	300	1,55	3,3/15,5	0,16	M_EP4d/3.18
	◆ FD400R07PE4R_B6	650	400	1,55	7,95/24	0,13	M_EP4d/3.18
 DF Chopper with NTC	IGBT4						
	◆ DF300R07PE4_B6	650	300	1,55	3,85/15,5	0,16	M_EP4d/3.18
	◆ DF400R07PE4R_B6	650	400	1,55	8,95/23,5	0,135	M_EP4d/3.18

◆ New type


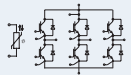
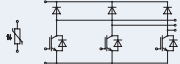
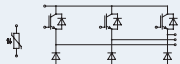
..._B26 3-Level NPC2 inverter part

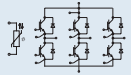
..._B6 three phase chopper

...R... limited DC current

IGBT Medium Power Modules

EconoPACK™ 4

1200 V _{CES}							
Type	V _{CES} V	I _C A	V _{CESat} V T _{vj} = 25°C typ.	E _{on} /E _{off} mWs T _{vj} =125°C typ.	R _{thjC} K/W max	Outline/ page	
 3-Level one-phase NPC2 topology with NTC	IGBT4						
	◆ F3L300R12PT4_B26	1200	300	1,75	1,15/19,0	0,09	M_EP4b/3.17
	◆ F3L400R12PT4_B26	1200	400	1,75	13,0/26,0	0,07	M_EP4b/3.17
 sixpack with NTC	IGBT4						
	FS100R12PT4	1200	100	1,75	9,3/8,3	0,30	M_EP4d/3.18
	FS150R12PT4	1200	150	1,75	14/12,5	0,22	M_EP4d/3.18
 FD Chopper with NTC	IGBT4						
	◆ FD200R12PT4_B6	1200	200	1,75	17,5/21,0	0,14	M_EP4d/3.18
 DF Chopper with NTC	IGBT4						
	◆ DF200R12PT4_B6	1200	200	1,75	19,5/21,0	0,135	M_EP4d/3.18


1700 V _{CES}							
Type	V _{CES} V	I _C A	V _{CESat} V T _{vj} = 25°C typ.	E _{on} /E _{off} mWs T _{vj} =125°C typ.	R _{thjC} K/W max	Outline/ page	
 sixpack with NTC	IGBT4						
	FS100R17PE4	1700	100	1,95	19/29	0,25	M_EP4d/3.18
	FS150R17PE4	1700	150	1,95	29/43,5	0,18	M_EP4d/3.18

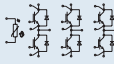
◆ New type ..._B26 3-Level NPC2 inverter part ..._B6 three phase chopper

IGBT Medium Power Modules

EconoPACK™ +

IGBT
Medium Power


1200 V _{CES}							
Type	V _{CES} V	I _C A	V _{CESat} V T _{vj} = 25°C typ.	E _{on} /E _{off} mWs T _{vj} =125°C typ.	R _{thjC} K/W max	Outline/ page	
 sixpack with NTC	IGBT3						
	■ FS150R12KE3G	1200	150	1,70	11/24	0,180	M_E+a/3.19
	■ FS225R12KE3	1200	225	1,70	15/36	0,110	M_E+a/3.19
	■ FS300R12KE3	1200	300	1,70	22/43	0,085	M_E+a/3.19
	■ FS450R12KE3	1200	450	1,70	33/65	0,060	M_E+a/3.19
	IGBT4						
	■ FS225R12KE4	1200	225	1,85	12,5/26,5	0,140	M_E+a/3.19
■ FS300R12KE4	1200	300	1,75	17/37,5	0,094	M_E+a/3.19	
■ FS450R12KE4	1200	450	1,75	26/55,5	0,066	M_E+a/3.19	

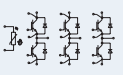
1700 V _{CES}							
Type	V _{CES} V	I _C A	V _{CESat} V T _{vj} = 25°C typ.	E _{on} /E _{off} mWs T _{vj} =125°C typ.	R _{thjC} K/W max	Outline/ page	
 sixpack with NTC	IGBT3						
	■ FS150R17KE3G	1700	150	2,00	48/47	0,120	M_E+a/3.19
	■ FS225R17KE3	1700	225	2,00	71,5/70,5	0,090	M_E+a/3.19
	■ FS300R17KE3	1700	300	2,00	95/94	0,075	M_E+a/3.19
	■ FS450R17KE3	1700	450	2,00	140/140	0,055	M_E+a/3.19
	IGBT4						
	■ FS225R17KE4	1700	225	1,95	67,5/73,5	0,099	M_E+a/3.19
■ FS300R17KE4	1700	300	1,95	92/98,5	0,083	M_E+a/3.19	
■ FS450R17KE4	1700	450	1,95	135/155	0,060	M_E+a/3.19	

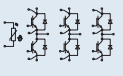
■ Not for new design

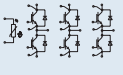
IGBT Medium Power Modules

EconoPACK™ + D-Series

1200 V _{CES}							
Type	V _{CES} V	I _C A	V _{CESat} V T _{vj} = 25°C typ.	E _{on} /E _{off} mWs T _{vj} =125°C typ.	R _{thjC} K/W max	Outline/ page	
 sixpack with NTC	IGBT4						
	◆ FS225R120E4	1200	225	1,75	20/28,5	0,120	M_E+d/3.19
	◆ FS300R120E4	1200	300	1,75	29,5/38,0	0,091	M_E+d/3.19
	◆ FS450R120E4	1200	450	1,75	40,5/56,5	0,067	M_E+d/3.19

1200 V _{CES} – Modules with preapplied Thermal Interface Material (TIM)							
Type	V _{CES} V	I _C A	V _{CESat} V T _{vj} = 25°C typ.	E _{on} /E _{off} mWs T _{vj} =125°C typ.	R _{thjC} K/W max	Outline/ page	
 sixpack with NTC	IGBT4						
	◆ FS225R120E4P	1200	225	1,75	20/28,5	0,120	M_E+d/3.19
	◆ FS300R120E4P	1200	300	1,75	29,5/38	0,091	M_E+d/3.19
	◆ FS450R120E4P	1200	450	1,75	40,5/56,5	0,067	M_E+d/3.19

1700 V _{CES}							
Type	V _{CES} V	I _C A	V _{CESat} V T _{vj} = 25°C typ.	E _{on} /E _{off} mWs T _{vj} =125°C typ.	R _{thjC} K/W max	Outline/ page	
 sixpack with NTC	IGBT4						
	◆ FS225R170E4	1700	225	1,95	60/73,5	0,100	M_E+d/3.19
	◆ FS300R170E4	1700	300	1,95	90,5/93	0,082	M_E+d/3.19
	◆ FS450R170E4	1700	450	1,95	165/135	0,062	M_E+d/3.19
	◆ FS500R170E4D	1700	500	1,95	165/155	0,05	M_E+d/3.19







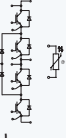
1700 V _{CES} – Modules with preapplied Thermal Interface Material (TIM)							
Type	V _{CES} V	I _C A	V _{CESat} V T _{vj} = 25°C typ.	E _{on} /E _{off} mWs T _{vj} =125°C typ.	R _{thjC} K/W max	Outline/ page	
 sixpack with NTC	IGBT4						
	◆ FS225R170E4P	1700	225	1,95	60/73,5	0,100	M_E+d/3.19
	◆ FS300R170E4P	1700	300	1,95	90,5/93	0,082	M_E+d/3.19
	◆ FS450R170E4P	1700	450	1,95	165/135	0,062	M_E+d/3.19
	◆ FS500R170E4DP	1700	500	1,95	165/155	0,05	M_E+d/3.19

◆ New type ...P = preapplied Thermal Interface Material (TIM) ...D with enhanced diode

IGBT Medium Power Modules

EconoDUAL™


IGBT
Medium Power

600 V _{CES} /650 V _{CES}		   					
Type	V _{CES} V	I _C A	V _{CESat} V T _{vj} = 25°C typ.	E _{on} /E _{off} mWs T _{vj} =125°C typ.	R _{thjC} K/W max	Outline/ page	
 dual modules with NTC	IGBT3 FF450R06ME3	600	450	1,45	6,3/17,5	0,120	M_ED3/3.20
	FF600R06ME3	600	600	1,45	9,9/25	0,090	M_ED3/3.20
	IGBT4 ◆ FF300R07ME4_B11	650	300	1,55	2,8/18	0,140	M_ED3_PF/3.20
	◆ FF450R07ME4_B11	650	450	1,75	26/55,5	0,066	M_ED3_PF/3.20
◆ FF600R07ME4_B11	650	600	1,75	83/72	0,041	M_ED3_PF/3.20	
 chopper modules with NTC	IGBT3 FD600R06ME3_S2	600	600	1,30	6,1/17,5	0,055	M_ED3/3.20
 3-level one-phase NPC1 topology with NTC	IGBT4 ◆ F3L400R07ME4_B22	650	400	1,55	12/25,5	0,13	M_ED3/3.20
	◆ F3L400R07ME4_B23	650	400	1,55	12/25,5	0,13	M_ED3/3.20

◆ New type ..._B11 PressFIT Modules ..._S2 low V_{CESat} ..._B22 3-Level NPC1 upper switch ..._B23 3-Level NPC1 lower switch

IGBT Medium Power Modules

EconoDUAL™

1200 V _{CES}							
Type	V _{CES} V	I _C A	V _{CESat} V T _{vj} = 25°C typ.	E _{on} /E _{off} mWs T _{vj} =125°C typ.	R _{thjC} K/W max	Outline/ page	
 dual modules with NTC	IGBT4 Fast FF200R12MT4	1200	200	1,75	18,5/16,5	0,140	M_ED2a/3.21
	IGBT2 Fast FF150R12MS4G	1200	150	3,20	14,5/11	0,100	M_ED3/3.20
	FF225R12MS4	1200	225	3,20	20/15	0,085	M_ED3/3.20
	FF300R12MS4	1200	300	3,20	25/15	0,064	M_ED3/3.20
	IGBT3 FF150R12ME3G	1200	150	1,70	11/24	0,180	M_ED3/3.20
	FF225R12ME3	1200	225	1,70	15/36	0,110	M_ED3/3.20
	FF300R12ME3	1200	300	1,70	22/43	0,085	M_ED3/3.20
	FF450R12ME3	1200	450	1,70	33/65	0,060	M_ED3/3.20
	IGBT4 FF225R12ME4	1200	225	1,85	12,5/26,5	0,140	M_ED3/3.20
	FF300R12ME4	1200	300	1,75	17/37,5	0,094	M_ED3/3.20
	FF450R12ME4	1200	450	1,75	26/55,5	0,066	M_ED3/3.20
	◆ FF600R12ME4	1200	600	1,75	83/72	0,041	M_ED3/3.20
	◆ FF600R12ME4C	1200	600	1,75	data on request	0,037	M_ED3/3.20
	◆ FF225R12ME4_B11	1200	225	1,85	12,5/26,5	0,140	M_ED3_Pf/3.20
	◆ FF300R12ME4_B11	1200	300	1,75	17/37,5	0,094	M_ED3_Pf/3.20
	◆ FF450R12ME4_B11	1200	450	1,75	26/55,5	0,066	M_ED3_Pf/3.20
	◆ FF600R12ME4_B11	1200	600	1,75	83/72	0,041	M_ED3_Pf/3.20
	◆ FF600R12ME4C_B11	1200	600	1,75	data on request	0,037	M_ED3_Pf/3.20

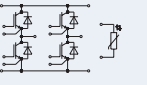
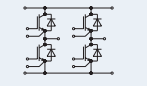
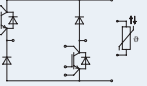
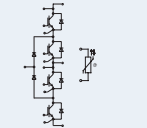
◆ New type ...C soft diode performance ..._B11 PressFIT Modules


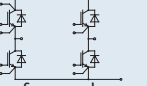
IGBT
Medium Power

IGBT Medium Power Modules

EconoDUAL™

IGBT
Medium Power

1200 V _{CES}							
Type	V _{CES} V	I _C A	V _{CESat} V T _{vj} = 25°C typ.	E _{on} /E _{off} mWs T _{vj} =125°C typ.	R _{thjC} K/W max	Outline/ page	
 fourpack with NTC	IGBT2 Fast F4-50R12MS4	1200	50	3,20	6/2,5	0,350	M_ED2b/3.21
	F4-75R12MS4	1200	75	3,20	9/3,8	0,250	M_ED2b/3.21
 fourpack without NTC	IGBT4 F4-100R12MT4	1200	100	1,75	11,0/11,0	0,230	M_ED3/3.20
	F4-100R12MT4	1200	200	1,75	19,0/18,0	0,160	M_ED3/3.20
 chopper	IGBT4 ◆ F4-400R12ME4_B29	1200	400	data on request			M_ED3/3.20
 3-level one-phase NPC1 topology with NTC	IGBT4 ◆ F3L300R12ME4_B22	1200	300	1,75	24/36,5	0,097	M_ED3/3.20
	◆ F3L300R12ME4_B23	1200	300	1,75	24/36,5	0,097	M_ED3/3.20

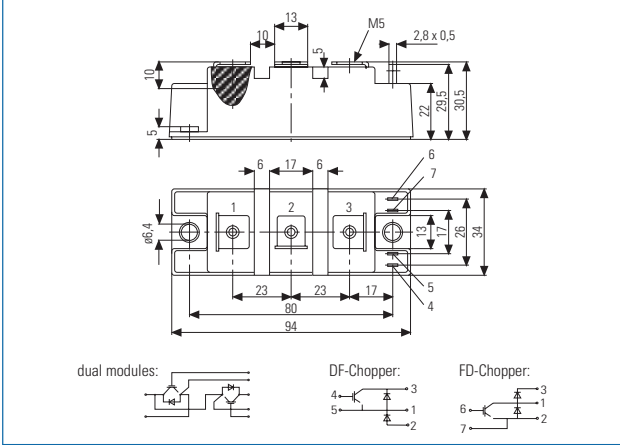
1700 V _{CES}							
Type	V _{CES} V	I _C A	V _{CESat} V T _{vj} = 25°C typ.	E _{on} /E _{off} mWs T _{vj} =125°C typ.	R _{thjC} K/W max	Outline/ page	
 dual modules with NTC	IGBT3 FF150R17ME3G	1700	150	2,00	48/47	0,120	M_ED3/3.20
	FF225R17ME3	1700	225	2,00	71,5/70,5	0,090	M_ED3/3.20
	FF300R17ME3	1700	300	2,00	95/94	0,075	M_ED3/3.20
	FF450R17ME3	1700	450	2,00	140/140	0,055	M_ED3/3.20
	IGBT4 FF225R17ME4	1700	225	1,95	67,5/73,5	0,099	M_ED3/3.20
	FF300R17ME4	1700	300	1,95	92/98,5	0,083	M_ED3/3.20
	FF450R17ME4	1700	450	1,95	135/155	0,060	M_ED3/3.20
	◆ FF600R17ME4	1700	600	1,95	210/180	0,037	M_ED3/3.20
	◆ FF225R17ME4_B11	1700	225	1,95	67,5/73,5	0,099	M_ED3_Pf/3.20
	◆ FF300R17ME4_B11	1700	300	1,95	92/98,5	0,083	M_ED3_Pf/3.20
 fourpack without NTC	IGBT4 ◆ F4-100R17ME4	1700	100	1,95	22,0/30,0	0,250	M_ED3/3.20
	◆ F4-150R17ME4	1700	150	1,95	30,0/44,0	0,180	M_ED3/3.20
	◆ F4-250R17MP4	1700	250	1,75	95,0/110,0	0,100	M_ED3/3.20

◆ New type ..._B29 Chopper ..._B22 3-Level NPC1 upper switch ..._B23 3-Level NPC1 lower switch ..._B11 PressFIT Modules

Outlines

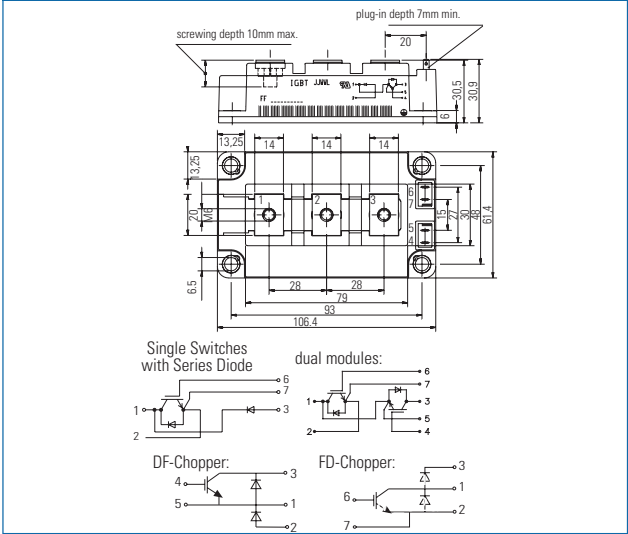
34 mm Module

M_34a



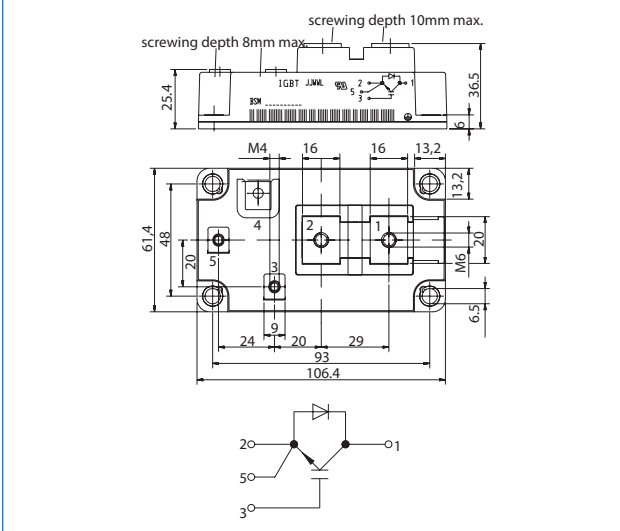
62 mm Module

M_62a



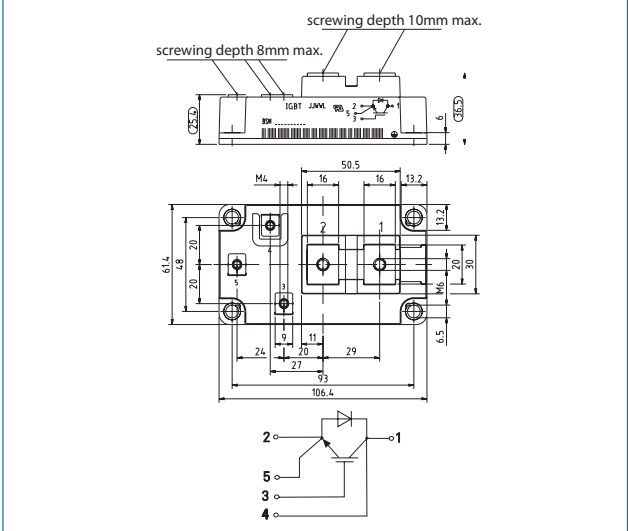
Single Switch 62

M_62b



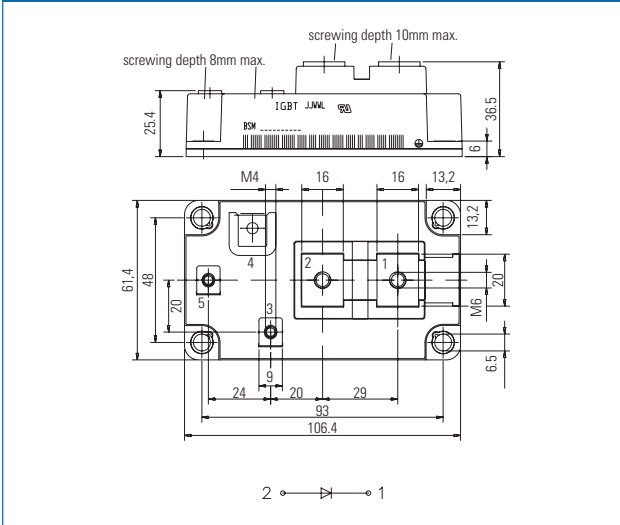
Single Switch 62, collector sense

M_62c



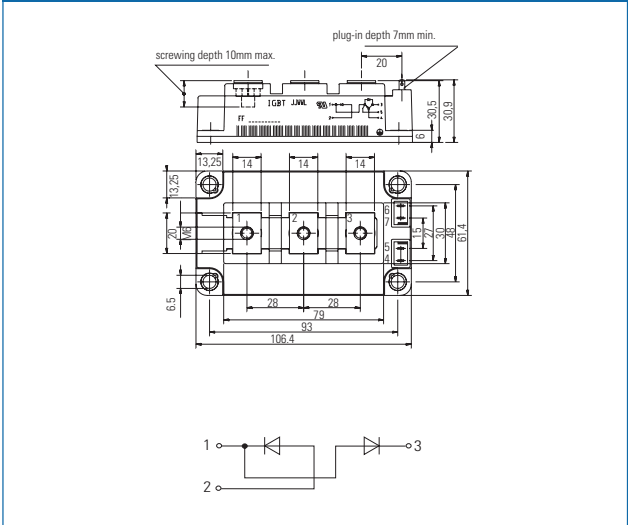
Single Diode 62

M_62d

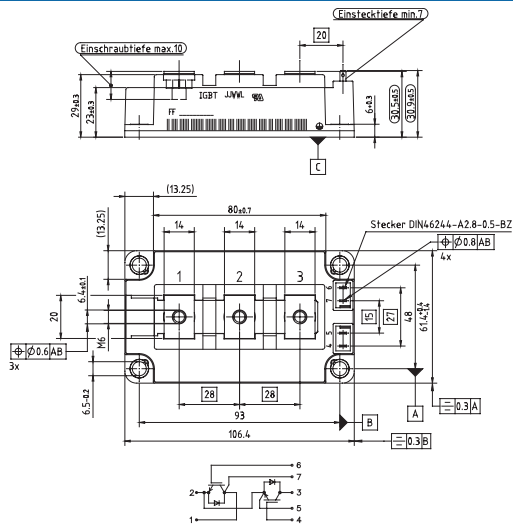


Dual Diode 62

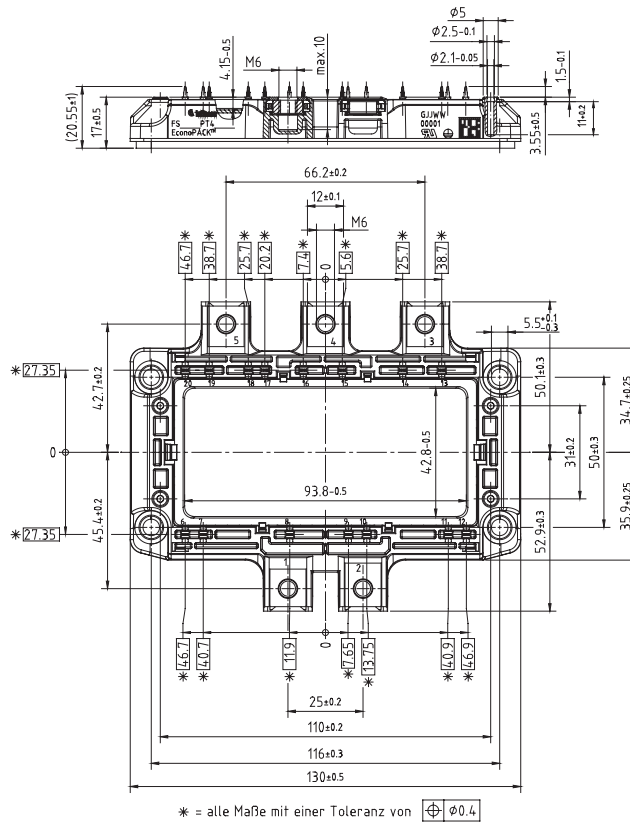
M_62e



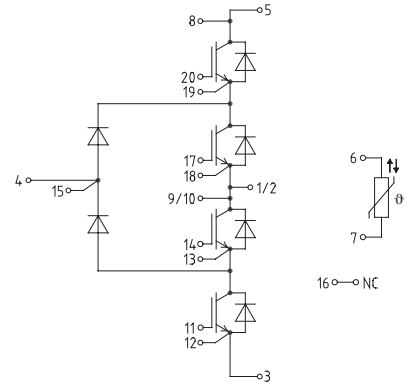
IGBT Medium Power



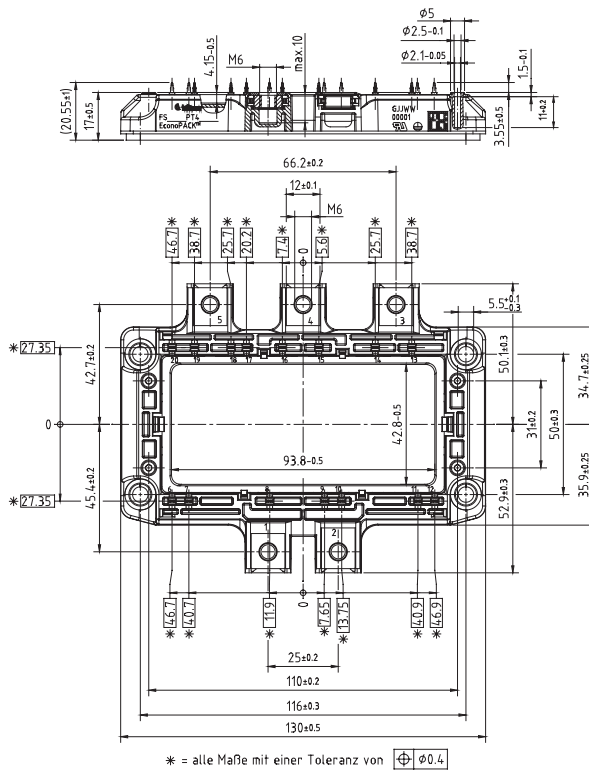
IGBT
Medium Power



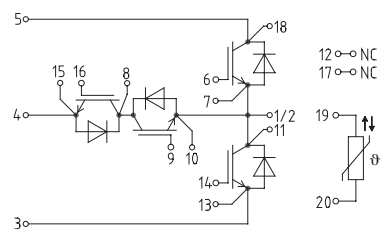
3-level one-phase NPC1 topology with NTC

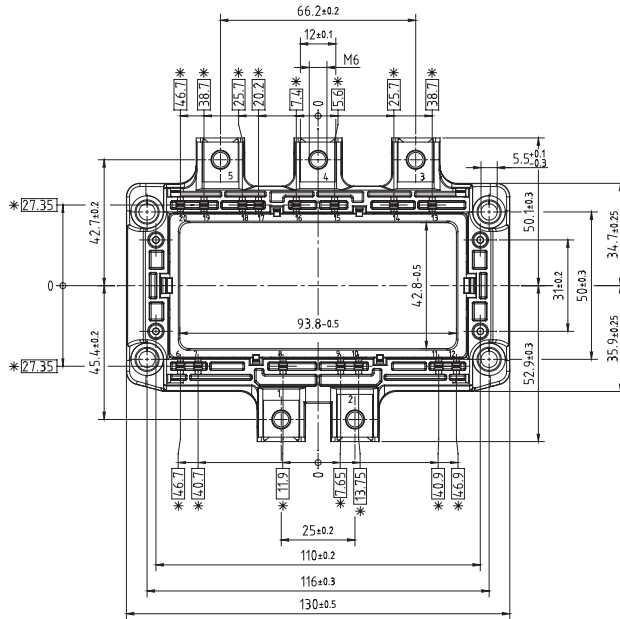
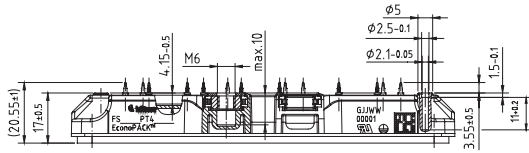


IGBT
Medium Power



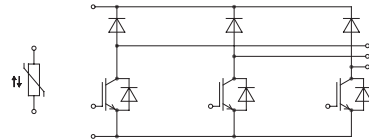
3-level one-phase NPC2 topology with NTC



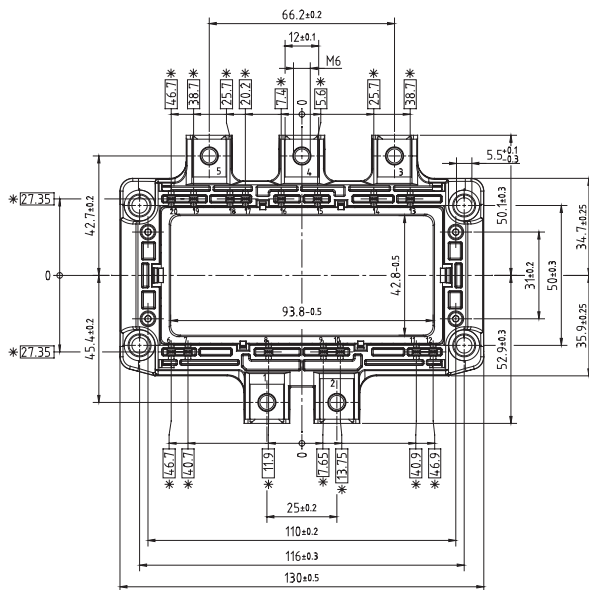
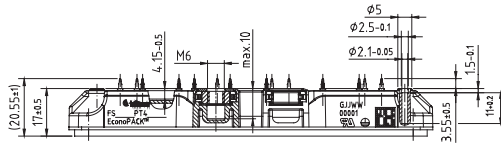
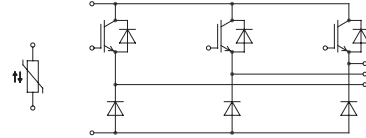


* = alle Maße mit einer Toleranz von ± 0.4

FD chopper with NTC

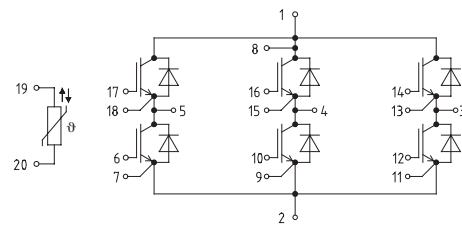


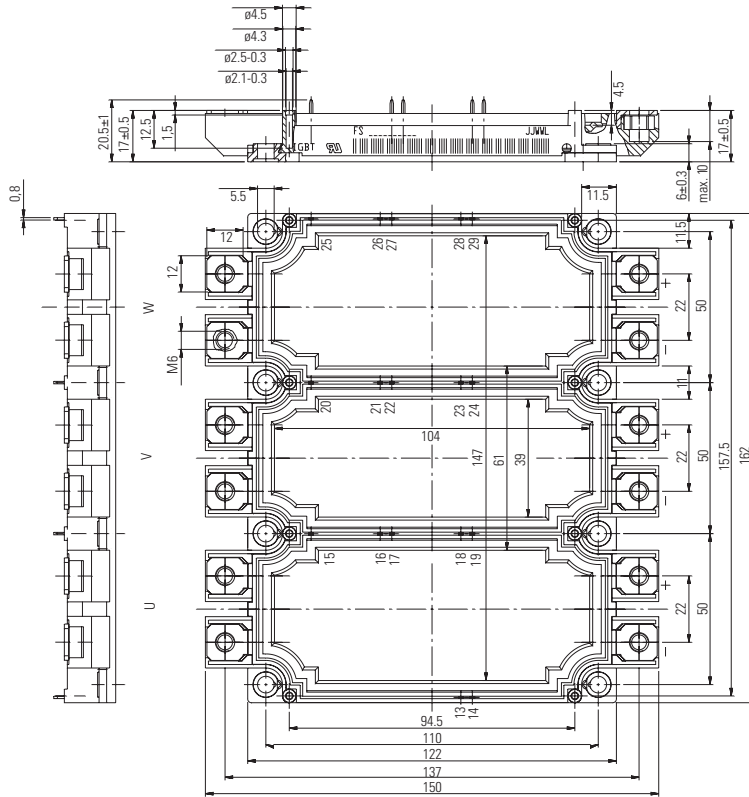
DF chopper with NTC



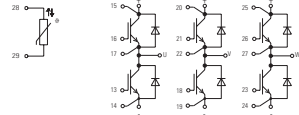
* = alle Maße mit einer Toleranz von ± 0.4

sixpack with NTC

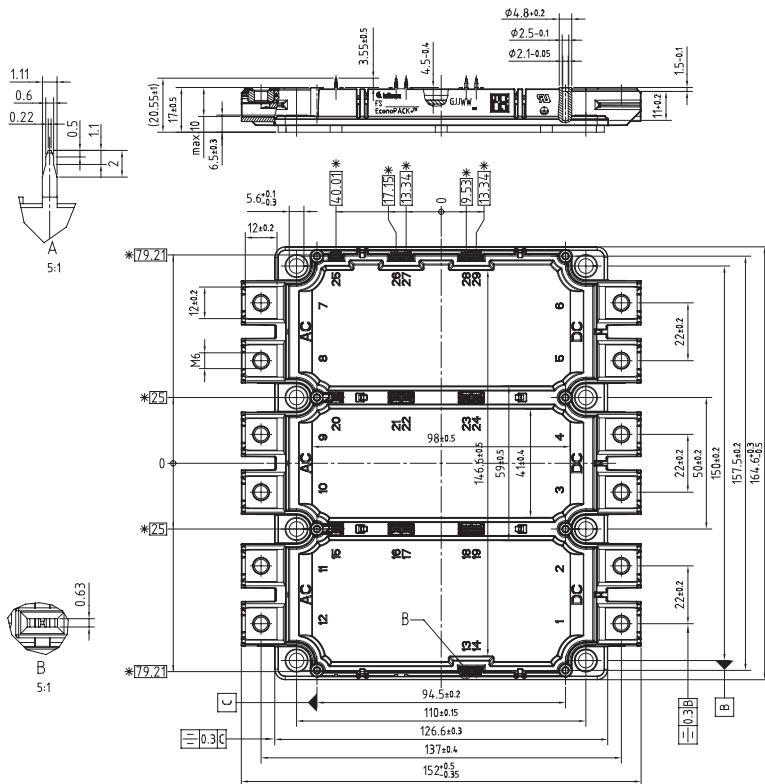




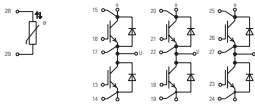
sixpack with NTC



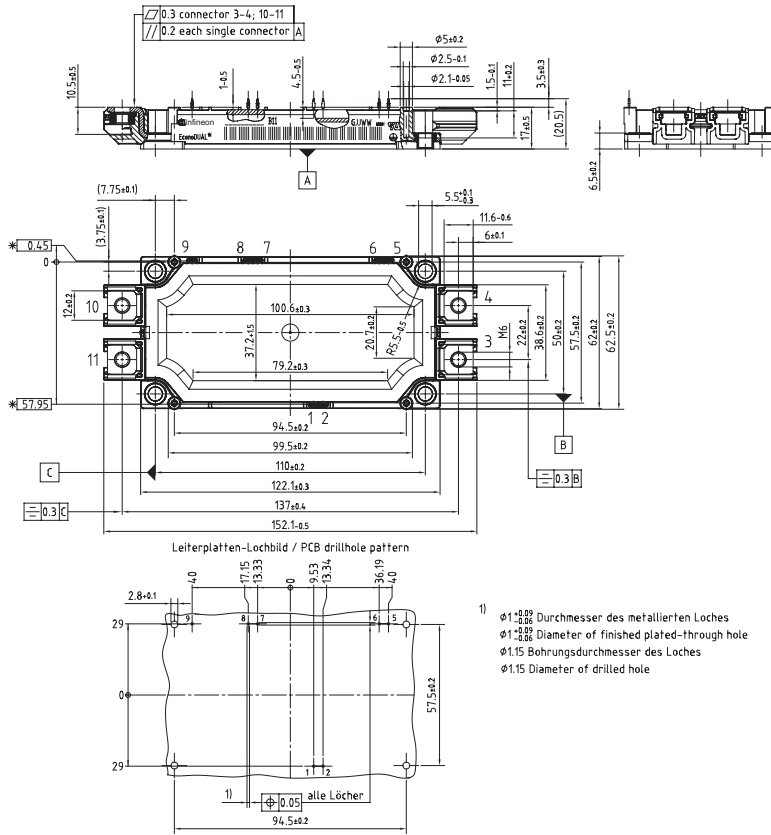
IGBT
Medium Power



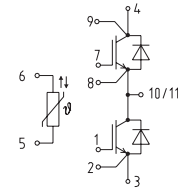
sixpack with NTC



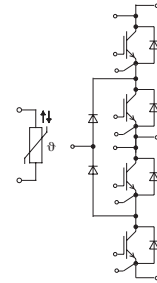
* = alle Maße mit einer Toleranz von ± 0.4
 * = all dimensions with a tolerance of ± 0.4



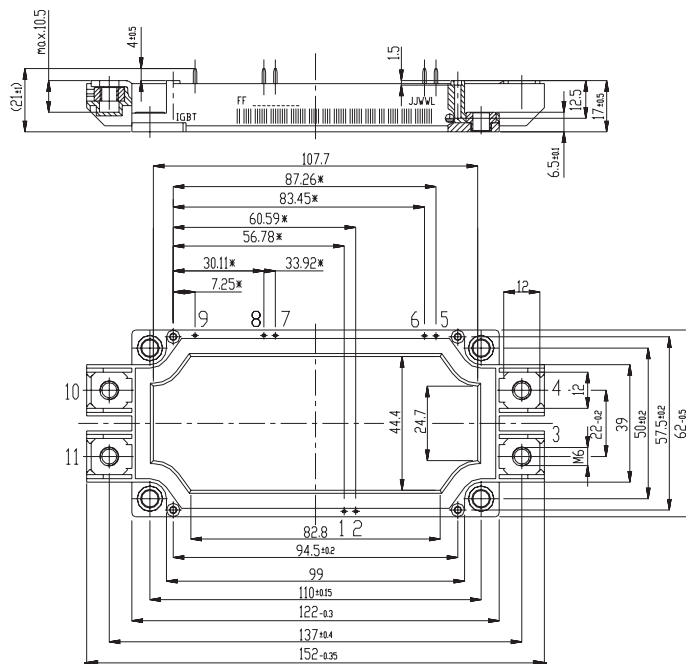
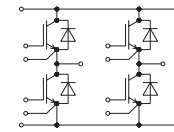
dual modules with NTC



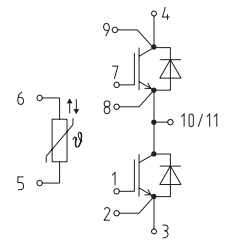
3-level one-phase NPC1 topology with NTC



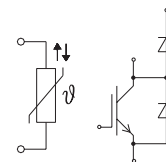
fourpack without NTC

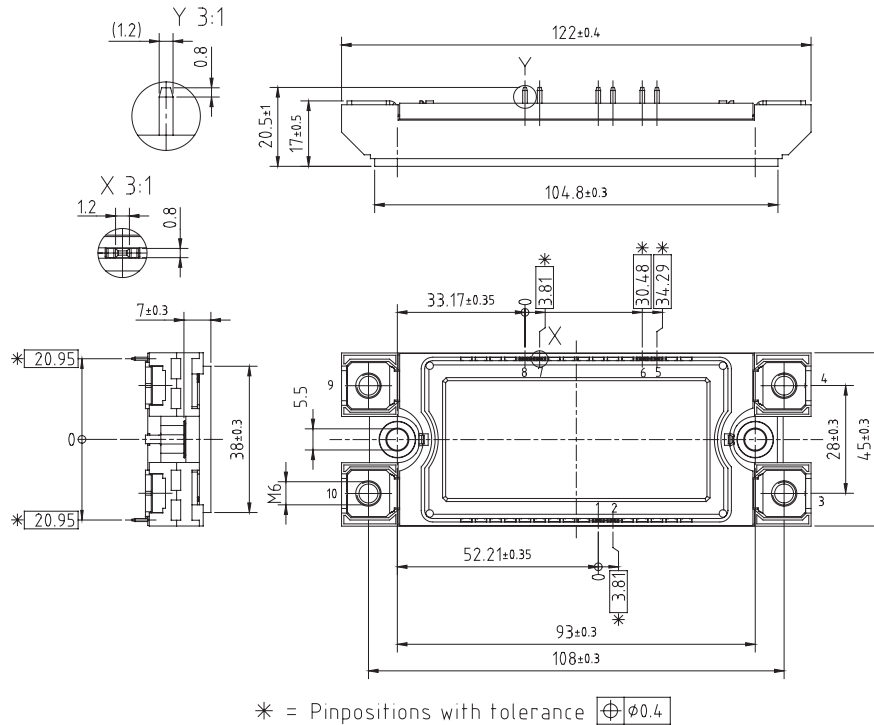


dual modules with NTC

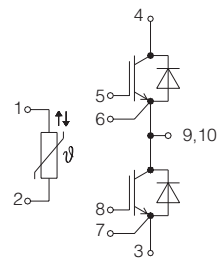


chopper modules with NTC

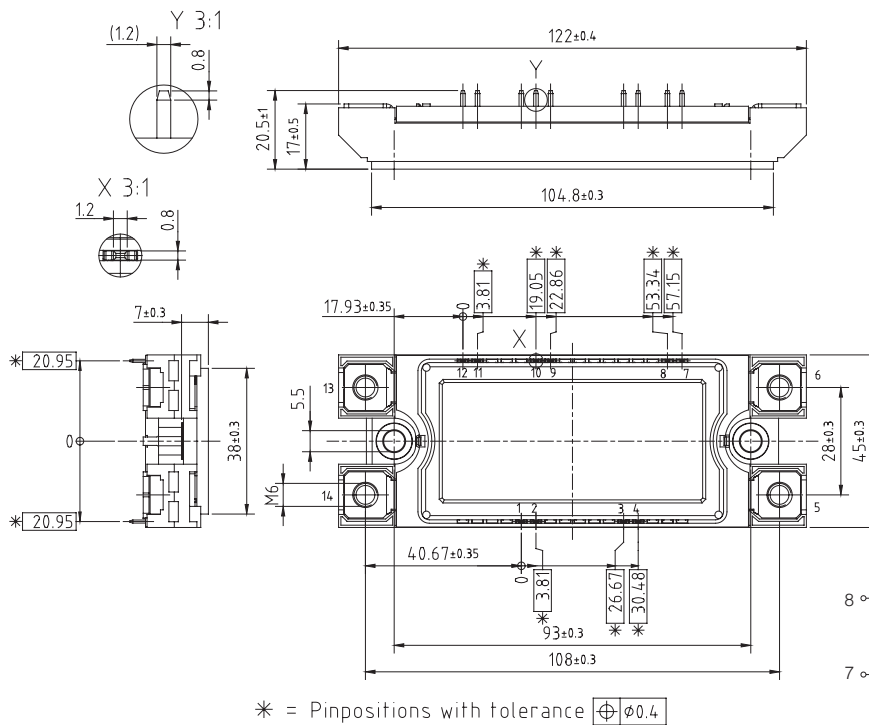




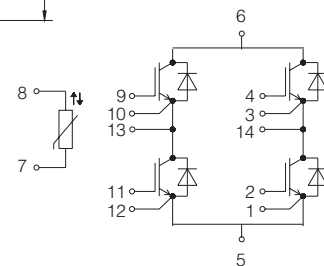
dual modules with NTC



IGBT
Medium Power



fourpack with NTC



Package Units

IGBT Medium Power Modules

	Housing Size (overall)	Packing Units
Standard 34mm	34,0 mm x 94,0 mm	10
Standard 62mm	62,0 mm x 106,4 mm	10

	Housing Size (overall)	Packing Units
EconoPACK™ +	162,0 mm x 150,0 mm	4
EconoPACK™ 4	130,0 mm x 103,0 mm	6
EconoDUAL™ 2	45,0 mm x 122,0 mm	14
EconoDUAL™ 3	62,0 mm x 152,0 mm	10
EconoDUAL™ 3 PressFIT	62,0 mm x 152,0 mm	6

Links

Application Notes, Product Briefs, Flyers and Brochures	Type	Redirects
34 & 62mm IGBT Modules	Product Brief	http://www.infineon.com/34mm-62mm-product-brief
3-Level Inverter 650V / 1200V	Product Brief	http://www.infineon.com/3-level-product-brief
EconoDUAL™ , EconoPACK™ 4, EconoPACK™ +	Product Brief	http://www.infineon.com/econo-medium-power-product-brief
EconoPACK™ 4 - The new world standard	Product Brief	http://www.infineon.com/econopack4-product-brief
EconoPACK™ 4 - IGBT Modules	Webpage	http://www.infineon.com/econopack4
EconoPACK™+ D-series - Fit for the future	Webpage	http://www.infineon.com/econopack-d-series
EconoDUAL™ 3 - 1200V, 600A - best in class	Webpage	http://www.infineon.com/dual3
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

High Power Modules



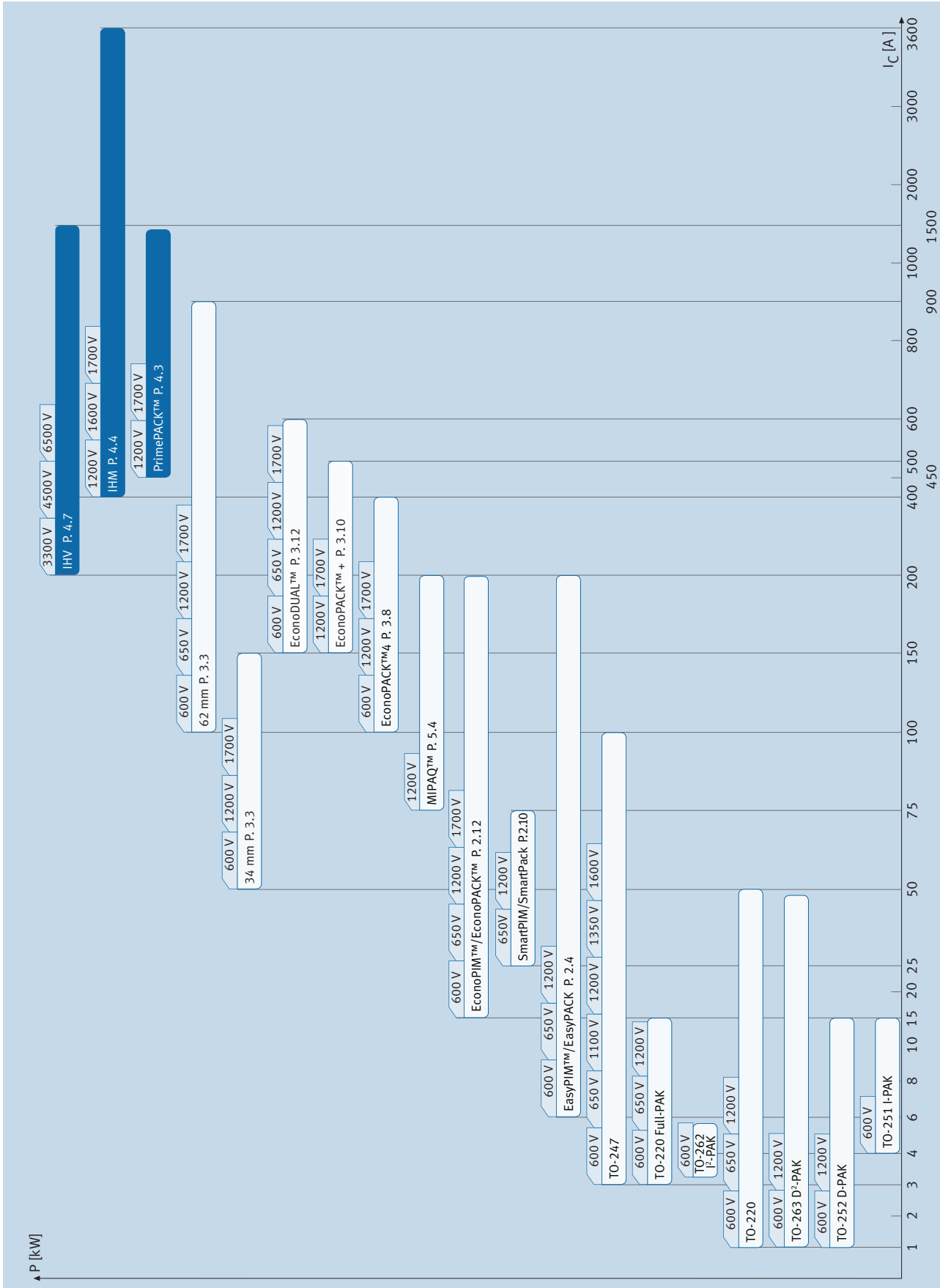
The High Power IGBT modules are used for applications in power range of 0.5 MW (1200V, 450A) till 6 MW (1700V, 3600A) and are offered in 3 different package categories, namely PrimePACK™, IHM (IGBT High power Module) and IHV (IGBT High Voltage). For high voltage applications (3.3, 4.5 and 6.5 KV) the IHV modules are available in various flavors with current ratings from 200A to 1500A. Different available topologies: chopper, diode, dual, half-bridge, and single switch enhance the high power modules product portfolio further.

The innovative PrimePACK™ (1200V & 1700V, 450...1400A), IHM (1200V & 1700V, 400...3600A) and IHV housing introduced by us is very well accepted in the market and has established itself as an industry standard which is adopted by all well known manufacturers and used in countless applications worldwide.

Our high power modules are highly integrated, robust, and work with 100% reliability under any temperature conditions ranging from -40...+150°C. Low leaking current and continuously improved thermal properties of these PrimePACK™, IHM and IHV modules are well appreciated by the customers. Electrical separation between power and auxiliary terminals reduces the stray inductance influence on sense contacts thereby making the module easy to control and safe to use. The widely accepted driving techniques and vastly available design support solutions make these modules a preferred choice for a powerful, compact and modular converter design.



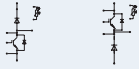
Our products today are contributing to daily demanding secure transportation applications, CAV (Construction & Agriculture Vehicles), working excellently even under harsh and rough conditions in power- generation & -distribution, industrial drives and are the innovative semiconductor solutions for energy efficiency and secure mobility.



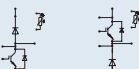
IGBT
High Power



IGBT High Power Modules

PrimePACK™

1200 V _{CES} ¹⁾							
							
Type	V _{CES} V	I _C A	V _{CESat} V T _{vj} = 25°C typ.	E _{on} /E _{off} mWs T _{vj} =125°C typ.	R _{thjC} K/W per arm	Outline/ page	
 halfbridge with NTC	IGBT4						
	FF450R12IE4	1200	450	1,75	59/52	0,0590 H_PP2/4.10	
	FF600R12IE4	1200	600	1,75	61/73	0,0450 H_PP2/4.10	
	FF600R12IP4	1200	600	1,70	77/105	0,0450 H_PP2/4.10	
	FF600R12IS4F	1200	600	3,20	20/40	0,0340 H_PP2/4.10	
	FF900R12IE4	1200	900	1,75	70/120	0,0295 H_PP2/4.10	
	FF900R12IP4	1200	900	1,70	100/160	0,0295 H_PP2/4.10	
	FF900R12IP4D	1200	900	1,70	100/160	0,0295 H_PP2/4.10	
FF1400R12IP4	1200	1400	1,75	80/280	0,0195 H_PP3/4.10		
 DF FD chopper modules with NTC	IGBT4						
	FD600R12IP4D	1200	600	1,70	77/105	0,0450 H_PP2/4.10	
	DF600R12IP4D	1200	600	1,70	77/105	0,0450 H_PP2/4.10	
	FD900R12IP4D	1200	900	1,70	100/160	0,0295 H_PP2/4.10	
	DF900R12IP4D	1200	900	1,70	100/160	0,0295 H_PP2/4.10	
	FD1400R12IP4D	1200	1400	1,75	80/280	0,0195 H_PP3/4.10	
	DF1400R12IP4D	1200	1400	1,75	80/280	0,0195 H_PP3/4.10	

1700 V _{CES} ¹⁾							
							
Type	V _{CES} V	I _C A	V _{CESat} V T _{vj} = 25°C typ.	E _{on} /E _{off} mWs T _{vj} =125°C typ.	R _{thjC} K/W per arm	Outline/ page	
 halfbridge with NTC	IGBT4						
	FF450R17IE4	1700	450	2,00	200/140	0,054 H_PP2/4.10	
	FF650R17IE4	1700	650	2,00	300/205	0,036 H_PP2/4.10	
	FF650R17IE4D_B2	1700	650	2,00	260/205	0,036 H_PP2/4.10	
	FF1000R17IE4	1700	1000	2,00	390/295	0,024 H_PP3/4.10	
	FF1000R17IE4D_B2	1700	1000	2,00	365/315	0,024 H_PP3/4.10	
	FF1400R17IP4	1700	1400	1,75	500/625	0,024 H_PP3/4.10	
 DF FD chopper modules with NTC	IGBT4						
	FD650R17IE4	1700	650	2,00	300/205	0,036 H_PP2/4.10	
	DF650R17IE4	1700	650	2,00	300/205	0,036 H_PP2/4.10	
	FD1000R17IE4	1700	1000	2,00	390/295	0,024 H_PP3/4.10	
	DF1000R17IE4	1700	1000	2,00	390/295	0,024 H_PP3/4.10	
	FD 650R17IE4D_B2	1700	650	2,00	260/205	0,036 H_PP2/4.10	
	DF 650 R17IE4D_B2	1700	650	2,00	260/205	0,036 H_PP2/4.10	
	FD1000 R17IE4D_B2	1700	1000	2,00	365/315	0,024 H_PP3/4.10	
	DF1000 R17IE4D_B2	1700	1000	2,00	365/315	0,024 H_PP3/4.10	

¹⁾ PrimePACK™: T_{vj,op} = 150°C

All modules with internal NTC

All modules are UL recognized

..._B2: Traction

...F: SiC Diodes

IGBT High Power

IGBT High Power Modules

IHM Modules

1200 V _{CES}							
Type	V _{CES} V	I _C A	V _{CESat} V T _{vj} = 25°C typ.	E _{on} /E _{off} mWs T _{vj} =125°C typ.	R _{thjC} K/W per arm	Outline/ page	
 dual modules	IGBT3						
	FF600R12KE3	1200	600	1,70	120/95	0,0440	H_IH2/4.10
	FF800R12KE3	1200	800	1,70	160/125	0,0320	H_IH2/4.10
	FF1200R12KE3	1200	1200	1,70	245/190	0,0250	H_IH2/4.10
 single switches	IGBT4 Standard (IHM B) ¹⁾						
	FZ1200R12HP4	1200	1200	1,70	155/265	0,0210	H_IH4B/4.10
	FZ1600R12HP4	1200	1600	1,70	250/370	0,0160	H_IH4B/4.10
	FZ1800R12HP4_B9	1200	1800	1,70	330/405	0,0140	H_IH7B/4.11
	FZ2400R12HP4	1200	2400	1,70	460/560	0,0120	H_IH4B/4.10
	FZ2400R12HP4_B9	1200	2400	1,70	460/560	0,0110	H_IH7B/4.11
	FZ3600R12HP4	1200	3600	1,70	595/895	0,0080	H_IH7B/4.11
	IGBT4 Fast (IHM B) ¹⁾						
	FZ1200R12HE4	1200	1200	1,75	115/145	0,0210	H_IH4B/4.10
	FZ1800R12HE4_B9	1200	1800	1,75	245/245	0,0140	H_IH7B/4.11
	FZ2400R12HE4_B9	1200	2400	1,95	510/630	0,0097	H_IH7B/4.11






¹⁾ IHM B / IHV B: T_{vj,op} = 150°C

All modules are UL recognised

..._B9: Bigger Housing

IGBT High Power Modules

IHM Modules

1700 V _{CES}							
							
Type	V _{CES} V	I _C A	V _{CESat} V T _{vj} = 25°C typ.	E _{on} /E _{off} mWs T _{vj} =125°C typ.	R _{thjC} K/W per arm	Outline/ page	
 dual modules	IGBT3						
	FF600R17KE3	1700	600	2,00	185/210	0,034 H_IH2/4.10	
	FF800R17KE3	1700	800	2,00	240/280	0,028 H_IH2/4.10	
	FF1200R17KE3	1700	1200	2,00	350/445	0,021 H_IH2/4.10	
 single switches	IGBT4 Standard (IHM B) ¹⁾						
	FZ1200R17HP4	1700	1200	1,90	365/415	0,0190 H_IH4B/4.10	
	FZ1600R17HP4	1700	1600	1,90	500/570	0,0145 H_IH4B/4.10	
	FZ1800R17HP4_B9	1700	1800	1,90	510/620	0,0130 H_IH7B/4.11	
	FZ2400R17HP4	1700	2400	1,90	570/830	0,0110 H_IH4B/4.10	
	FZ2400R17HP4_B9	1700	2400	1,90	620/870	0,0097 H_IH7B/4.11	
	FZ3600R17HP4	1700	3600	1,90	800/1450	0,0072 H_IH7B/4.11	
	IGBT4 Fast (IHM B) ¹⁾						
	FZ1200R17HE4	1700	1200	1,95	225/315	0,0220 H_IH4B/4.10	
	FZ1800R17HE4_B9	1700	1800	1,95	390/410	0,0130 H_IH7B/4.11	
	FZ2400R17HE4_B9	1700	2400	1,95	510/630	0,0097 H_IH7B/4.11	
FZ3600R17HE4	1700	3600	1,95	650/1100	0,0072 H_IH7B/4.11		
 FD...  FD...-K chopper modules	IGBT3						
	FD600R17KE3-K_B5	1700	600	2,00	185/220	0,029 H_IH11/4.11	
	FD1200R17KE3-K	1700	1200	2,00	350/445	0,021 H_IH4/4.10	

¹⁾ IHM B / IHV B: T_{vj,op} = 150°C

All modules are UL recognised






..._B5: 6.5kV housing / 10.2kV insulation
 ..._B9: Bigger Housing

IGBT High Power

IGBT High Power Modules

IHM Modules

IGBT High Power

1700 V _{CES}							
Type	V _{CES} V	I _C A	V _{CESat} V T _{vj} = 25°C typ.	E _{on} /E _{off} mWs T _{vj} =125°C typ.	R _{thjC} K/W per arm	Outline/ page	
 dual modules	IGBT2 Low Loss						
	■ FF401R17KF6C_B2	1700	400	2,60	190/150	0,040 H_IH9/4.11	
	■ FF800R17KF6C_B2	1700	800	2,60	290/335	0,020 H_IH2/4.10	
	IGBT3						
	FF600R17KE3_B2	1700	600	2,00	185/220	0,029 H_IH2/4.10	
	IGBT4 Standard						
 single switches	IGBT4 Standard (IHM B) ¹⁾						
	FZ1200R17HP4_B2	1700	1200	1,90	245/415	0,0175 H_IH4B/4.10	
	FZ1600R17HP4_B2	1700	1600	1,90	330/570	0,0140 H_IH4B/4.10	
	FZ1600R17HP4_B21	1700	1600	1,90	415/570	0,0115 H_IH4B/4.10	
	FZ1800R17HP4_B29	1700	1800	1,90	380/620	0,0115 H_IH7B/4.11	
	FZ2400R17HP4_B2	1700	2400	1,90	680/830	0,0105 H_IH4B/4.10	
	FZ2400R17HP4_B28	1700	2400	1,90	680/870	0,0078 H_IH7B/4.11	
	FZ2400R17HP4_B29	1700	2400	1,90	450/870	0,0093 H_IH7B/4.11	
FZ3600R17HP4_B2	1700	3600	1,90	980/1450	0,0071 H_IH7B/4.11		
 FD...  FD...-K chopper modules	IGBT2 Low Loss						
	■ FD1600/1200R17KF6C_B2	1700	1600	2,60	430/670	0,010 H_IH7/4.11	
	IGBT3						
	FD600R17KE3_B2	1700	600	2,00	185/220	0,029 H_IH2/4.10	
	FD800R17KE3_B2	1700	800	2,00	240/295	0,024 H_IH2/4.10	
	■ FD1200R17KE3-K_B2	1700	1200	2,00	350/445	0,019 H_IH4/4.10	
	IGBT4 Standard (IHM B) ¹⁾						
	FD800R17HP4-K_B2	1700	800	1,90	250/385	0,0280 H_IH4B/4.10	
	FD1200R17HP4-K_B2	1700	1200	1,90	350/440	0,0215 H_IH4B/4.10	
	FD1600/1200R17HP4_B2	1700	1600	1,90	460/570	0,0140 H_IH7B/4.11	

¹⁾ IHM B / IHV B: T_{vj,op} = 150°C ■ Not recommended for new design

All modules are UL recognised

..._B2: AlSiC base-plate and bigger diode

..._B21: AlSiC base-plate with standard diode

..._B28: bigger housing, AlSiC base-plate and standard diode

..._B29: bigger housing, AlSiC base-plate and bigger diode

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

QR код

