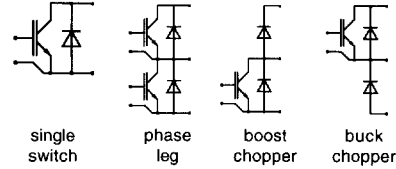
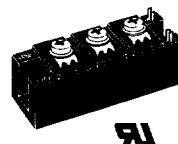




IGBT Modules



NPT IGBT Modules

NPT IGBT = non-punch through insulated gate bipolar transistor square RBSOA, short circuit rated

Type	V_{CES} V	I_{CS} A $T_C = 25^\circ\text{C}$	I_{CS} A $T_C = 80^\circ\text{C}$	$V_{CE(EM)}$ V $T_J = 25^\circ\text{C}$	E_{off} mJ $T_J = 125^\circ\text{C}$	R_{thJC} K/W	I_{F25} A $T_C = 25^\circ\text{C}$	I_{F80} A $T_C = 80^\circ\text{C}$	ther- mistor	Fig. No.	Package style
► New											
1200 V phaseleg modules											
MII 75-12A3	1200	90	60	2.2	5.6	0.33	100	60		28	Fig. 28 Weight = 130 g 
MII 100-12A3	1200	135	90	2.2	10.5	0.22	150	100		28	
MII 145-12A3	1200	160	110	2.2	15.0	0.18	150	100		28	
MII 150-12A4	1200	180	120	2.2	11.5	0.17	200	130		33	
MII 200-12A4	1200	270	180	2.2	21.0	0.11	300	200		33	
MII 300-12A4	1200	330	220	2.2	29.0	0.09	450	270		33	
phaseleg with fast NPT³ IGBT											
MII 400-12E4	1200	420	300	2.2	30.0	0.08	450	290		80	Fig. 33 Weight = 250 g
1200 V boost chopper modules											
MID 75-12A3	1200	90	60	2.2	5.6	0.33	100	60		28	Fig. 80 Weight = 250 g 
MID 100-12A3	1200	135	90	2.2	10.5	0.22	150	100		28	
MID 145-12A3	1200	160	110	2.2	15.0	0.18	150	100		28	
MID 150-12A4	1200	180	120	2.2	11.5	0.17	200	130		33	
MID 200-12A4	1200	270	180	2.2	21.0	0.11	300	200		33	
MID 300-12A4	1200	330	220	2.2	29.0	0.09	450	270		33	
MID 550-12A4	1200	670	460	2.3	59.0	0.05	750	460		33	
1200 V buck chopper modules											
MDI 75-12A3	1200	90	60	2.2	5.6	0.33	100	60		28	Fig. 82 Weight = 250 g 
MDI 100-12A3	1200	135	90	2.2	10.5	0.22	150	100		28	
MDI 145-12A3	1200	160	110	2.2	15.0	0.18	150	100		28	
MDI 150-12A4	1200	180	120	2.2	11.5	0.17	200	130		33	
MDI 200-12A4	1200	270	180	2.2	21.0	0.11	300	200		33	
MDI 300-12A4	1200	330	220	2.2	29.0	0.09	450	270		33	
MDI 550-12A4	1200	670	460	2.3	59.0	0.05	750	460		33	

PT IGBT Modules

PT IGBT = punch through insulated gate bipolar transistor
High current, low voltage devices for electric vehicles

300 V fast switching phase leg module										
VII 420-03S4	300	425	300	1.5	9.6	0.13	620	400	●	80
300 V low saturation single switch module										
VIO 1000-03G4	300	1100	780	1.3	140	0.063	600	400	●	82

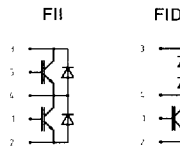


Fig. 84
ISOPLUS i4-PAC™
Weight = 9 g

NPT IGBT Modules in i4-PAC

Type	Configu- ration	Technology	V_{CES} V	I_{CS} @ 25 °C A	I_{CS} @ 90 °C A	$V_{CE(EM)}$ $T_C = 25^\circ\text{C}$ V	Fig. No.
► New							
► FII 40-06D	phaseleg	NPT IGBT	600	40	25	1.8	84
► FII 50-12E	phaseleg	NPT ³ IGBT	1200	50	32	2.0	
► FID 35-06C	boost	NPT IGBT & HiPerDynFRED	600	38	24	1.9	

