

IGBT Modules - Sixpack configuration

NPT IGBT Modules

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

6-pack
IGBT - Modules

Fig. 81

► **New**

Type	V_{CES} V	I_{CES} A $T_c = 25^\circ\text{C}$ IGBT	I_{C80} A $T_c = 80^\circ\text{C}$ IGBT	$V_{CE(sat)typ}$ V $T_j = 25^\circ\text{C}$ IGBT	E_{off} mJ $T_j = 125^\circ\text{C}$ IGBT	R_{thJC} K/W IGBT	I_{F25} A $T_c = 25^\circ\text{C}$ diode	I_{F80} A $T_c = 80^\circ\text{C}$ diode	ther- mistor
600 V sixpack modules									
MWI 30-06A7	600	45	30	1.9	1.0	0.88	36	24	•
MWI 30-06A7T	600	45	30	1.9	1.0	0.88	36	24	•
MWI 50-06A7	600	75	50	1.9	1.7	0.55	72	45	•
MWI 50-06A7T	600	75	50	1.9	1.7	0.55	72	45	•
MWI 75-06A7	600	90	60	2.1	2.5	0.44	140	85	•
MWI 75-06A7T	600	90	60	2.1	2.5	0.44	140	85	•
1200 V sixpack modules									
MWI 15-12A7	1200	30	20	1.0	1.8	2.1	25	17	•
MWI 25-12A7	1200	50	35	2.2	2.8	0.55	50	33	•
MWI 25-12A7T	1200	50	35	2.2	2.8	0.55	50	33	•
MWI 35-12A7	1200	62	44	2.2	4.2	0.44	50	33	•
MWI 35-12A7T	1200	62	44	2.2	4.2	0.44	50	33	•
MWI 50-12A7	1200	85	60	2.2	5.6	0.35	110	70	•
MWI 50-12A7T	1200	85	60	2.2	5.6	0.35	110	70	•
1200 V sixpack module with NPT³ IGBT									
► MWI 35-12E7	1200	52	35	2.0	3.0	0.55	48	25	
► MWI 50-12E7	1200	90	62	2.1	5.0	0.35	110	70	

6-pack
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Fig. 77

► **New**

Type	V_{CES} V	I_{CES} A $T_c = 25^\circ\text{C}$ IGBT	I_{C80} A $T_c = 80^\circ\text{C}$ IGBT	$V_{CE(sat)typ}$ V $T_j = 25^\circ\text{C}$ IGBT	E_{off} mJ $T_j = 125^\circ\text{C}$ IGBT	R_{thJC} K/W IGBT	I_{F25} A $T_c = 25^\circ\text{C}$ diode	I_{F80} A $T_c = 80^\circ\text{C}$ diode
600 V sixpack modules								
► MWI 100-06A8	600	130	88	2.0	2.9	0.3	140	88
► MWI 150-06A8	600	170	115	2.0	4.6	0.24	210	130
► MWI 200-06A8	600	215	155	2.0	6.3	0.18	260	165
1200 V sixpack modules								
► MWI 75-12A8	1200	125	85	2.2	10.5	0.25	150	100
► MWI 100-12A8	1200	160	110	2.2	14.6	0.19	200	130
1200 V sixpack modules with NPT³ IGBT								
► MWI 75-12E8	1200	130	90	2.0	7.5	0.25	150	100
► MWI 100-12E8	1200	165	115	2.1	10.0	0.19	200	130

Preliminary data