

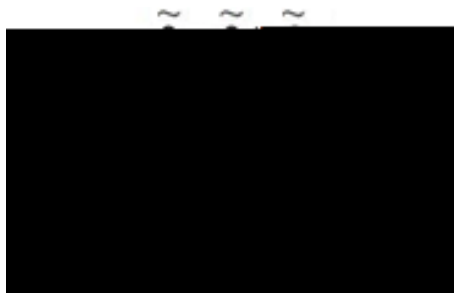


Cb **b** **M** **a** **P**

M b b □	S b□	R □
V _{RRM}	1600	V
I _D (@ T _C = 100°C)	50	A
I _{FSM} (@ t _p = 10ms)	500	A
V _{FM} (Max)	1.40	V

High surge current capability

Non-controllable rectifiers for AC/DC converter



b ☐ **J** ☐ **O** ☐ (@ T_C = 25°C unless otherwise specified)

M	b	b	a	P	S	b	R
Repetitive peak reverse voltage	T _{vj} = 25℃		V _{RRM}	1600	V		
Non-repetitive peak reverse voltage	T _{vj} = 25℃		V _{RSM}	1700	V		
Average forward current	T _C = 100℃		I _D	50	A		
Forward surge current	1/2 cycle, Sine wave, 50Hz T _{vj} = 25		I _{FSM}	500	A		
I ² t value for fusing			I ² t	1250	A ² s		
RMS isolation voltage	A.C 50Hz(1s/1min)		V _{ISO}	3600/3000	V		
Junction temperature range			T _{vj}	-40 ~ +150			
Storage temperature range			T _{stg}	-40 ~ +125			



B b **b** (@ $T_C = 25^{\circ}\text{C}$ unless otherwise specified)

M b b	a	P	S b			R
			J		J	
Peak forward voltage	$I_F=50\text{A}$, $t_P=380$	V_{FM}		1.20	1.40	V
Reverse leakage current	$V_R = V_{RRM}$, $T_{vj} = 25$	I_{RRM}		0.3		

B b b b

FIG.1: Forward characteristics(per diode)

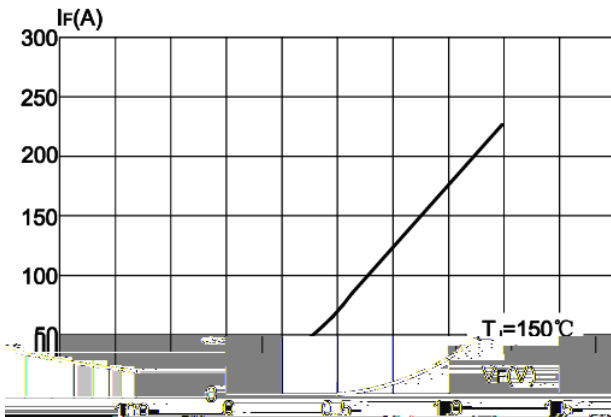
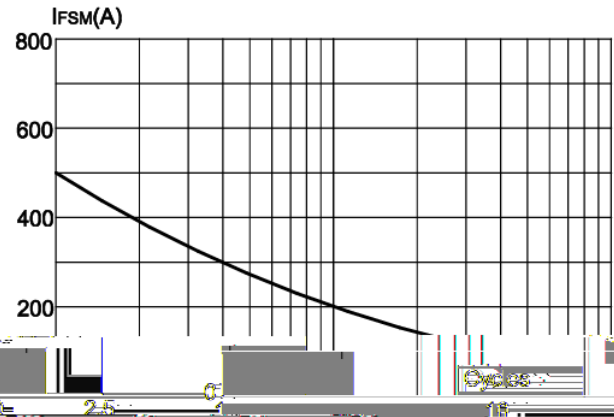


FIG.2: Peak on-state surge current



Thermal transient thermal impedance Junction-to-case(per diode)

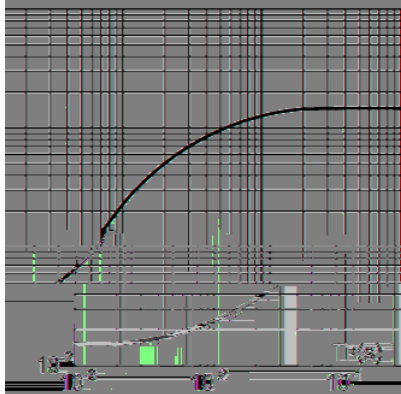


FIG.3: Forward current vs. case temperature

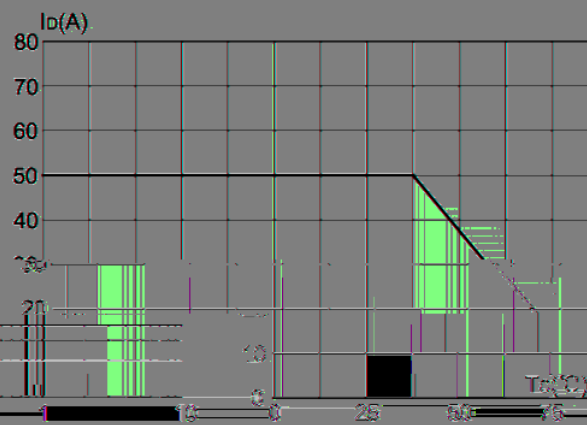
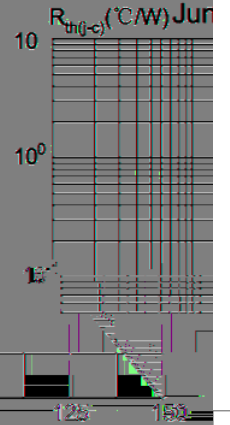
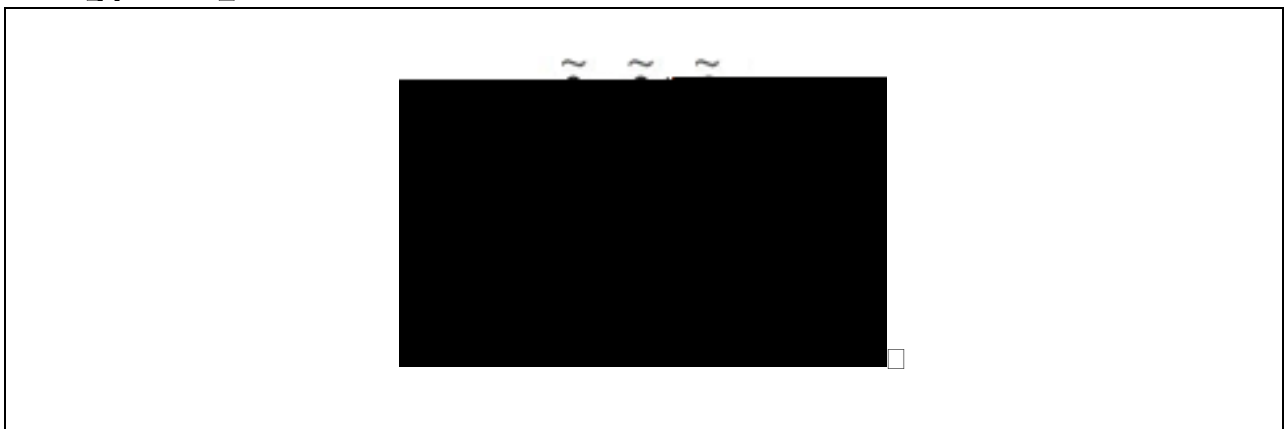


FIG.4: Maximum thermal resistance Junction-to-case

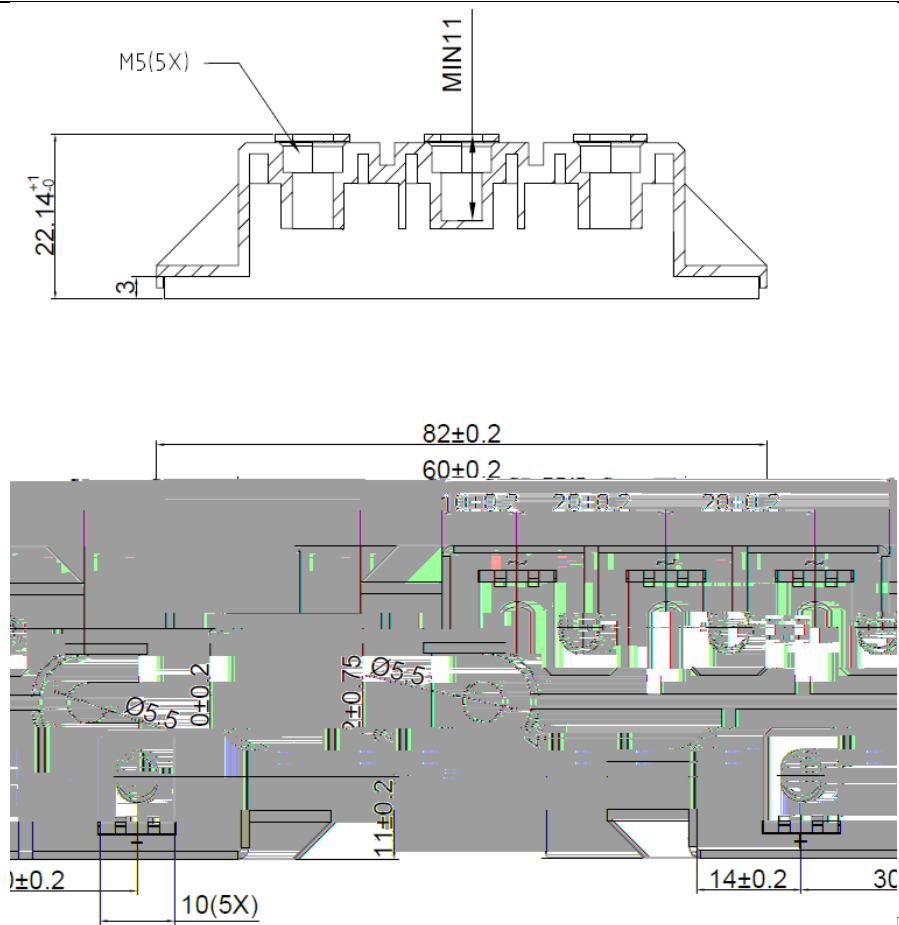


A



M

M **b** ☐ **L** **b** ☐ **&** ☐



□ □ □ □ □ □ □ □ □ □ □ □ □ □ □



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