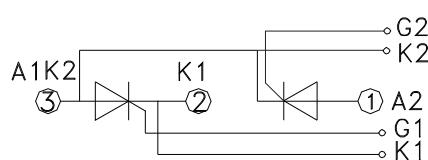


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SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T_J (°C)	VALUE			UNIT
				Min	Type	Max	
$I_{T(AV)}$	Mean on-state current	180° half sinewave 50Hz Single side cooled, $T_c=85^\circ\text{C}$	125			110	A
$I_{T(RMS)}$	RMS on-state current	Single side cooled, $T_c=85^\circ\text{C}$	125			173	A
V_{DRM} V_{RRM}	Repetitive peak off-state voltage Repetitive peak reverse voltage	$V_{DRM} \& V_{RRM}$ tp=10ms $V_{DsM} \& V_{RsM} = V_{DRM} \& V_{RRM} + 200\text{V}$ respectively	125		1200		V
I_{DRM} I_{RRM}	Repetitive peak current	at V_{DRM} at V_{RRM}	125			12	mA
I_{TSM}	Surge on-state current	10ms half sinewave	125			2.40	KA
I^2t	I^2T for fusing coordination	$V_R=60\%V_{RRM}$				29.3 $\text{A}^2\text{s} \times 10^3$	
V_{TO}	Threshold voltage		125			0.8	V
r_T	On-state slop resistance					2.29	$\text{m}\Omega$
V_{TM}	Peak on-state voltage	$I_M=330\text{A}$	125			1.70	V
dv/dt	Critical rate of rise of off-state voltage	$V_{DM}=67\%V_{DRM}$	125			500	V/ns
di/dt	Critical rate of rise of on-state current	From 67% V_{DRM} to 330A, Gate source 1.5A $t_r \leq 0.5\text{ ns}$ Repetitive	125			100	A/ns
I_{GT}	Gate trigger current	$V_A=12\text{V}, I_A=1\text{A}$	25	30		100	mA
V_{GT}	Gate trigger voltage			0.8		1.8	V
I_H	Holding current			20		100	mA
V_{GD}	Non-trigger gate voltage	At 67% V_{DRM}	125			0.2	V
$R_{th(j-c)}$	Thermal resistance Junction to heatsink	At 180° sine Single side cooled				0.250	$^\circ\text{C}/\text{W}$
V_{iso}	Isolation voltage	50Hz, RM. S, t=1min, $i_{lo}: 1\text{mA MAX}$)		2500			V
F_m	Thermal connection torque(M5)				2.0		N.m
	Mounting torque(M6)				3.0		N.m
T_{stg}	Stored temperature			-40		140	$^\circ\text{C}$
W_t	Weight				154		g
Outline							

OUTLINE DRAWING & CIRCUIT DIAGRAM

MTC:



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Rating and Characteristic

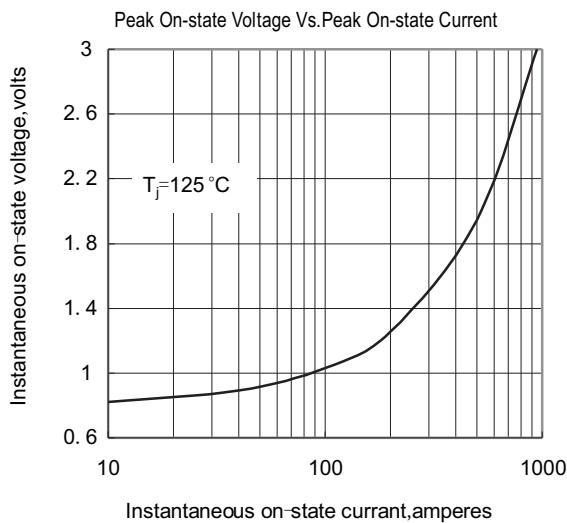


Fig. 1

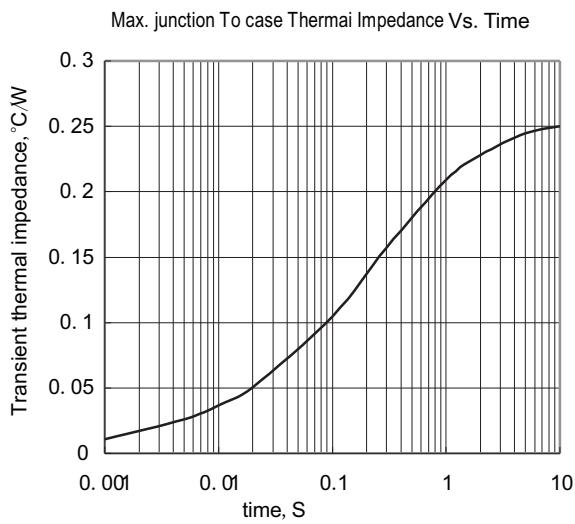


Fig. 2

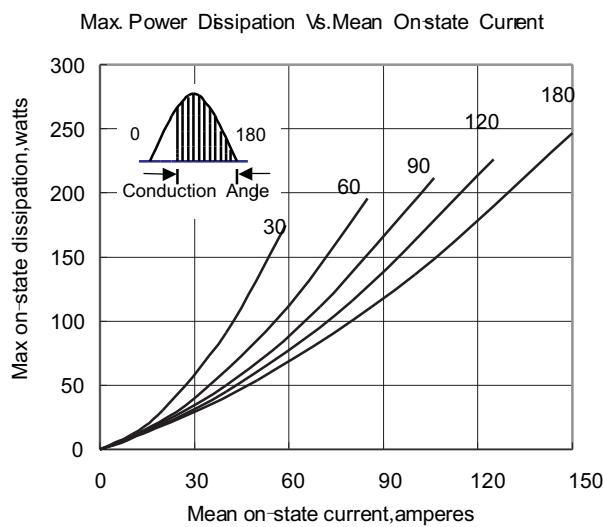


Fig. 3

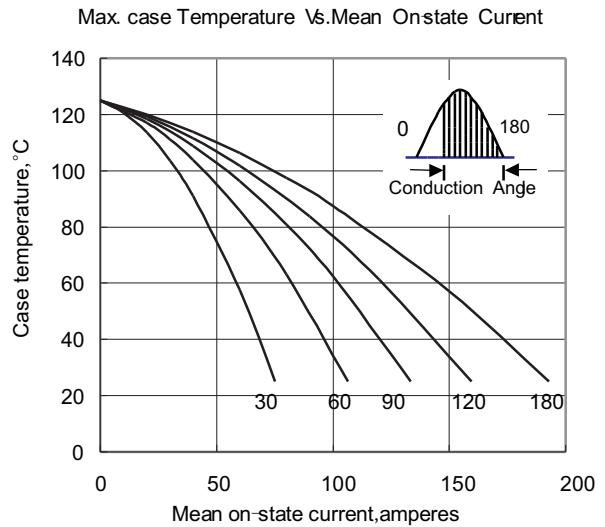


Fig. 4

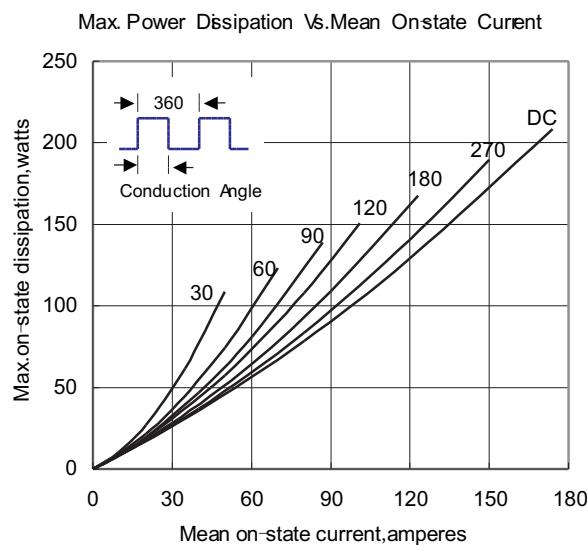


Fig. 5

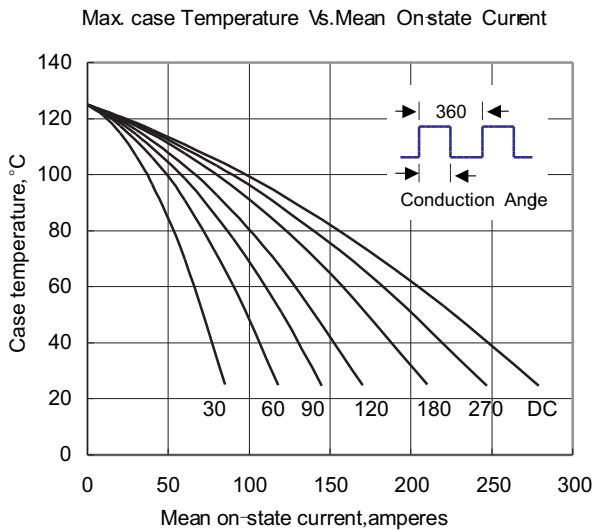


Fig. 6

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Rating and Characteristic

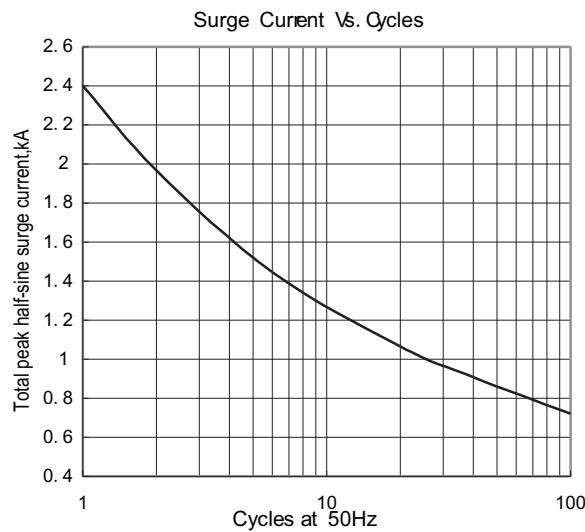


Fig. 7

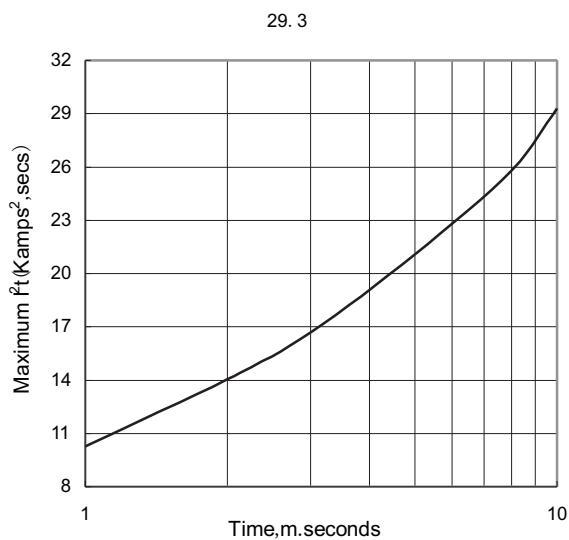


Fig. 8

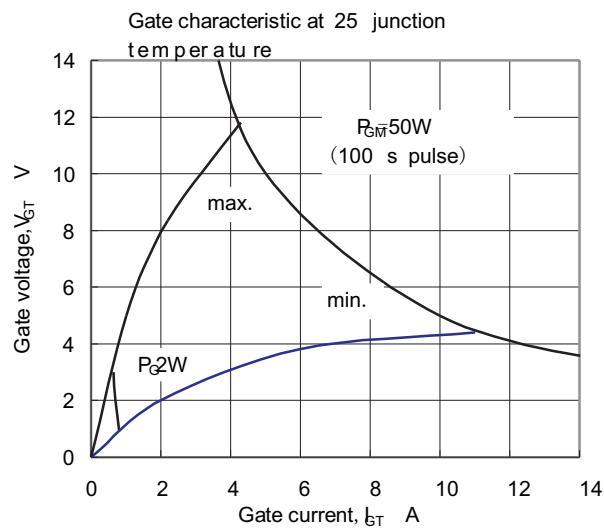


Fig. 9

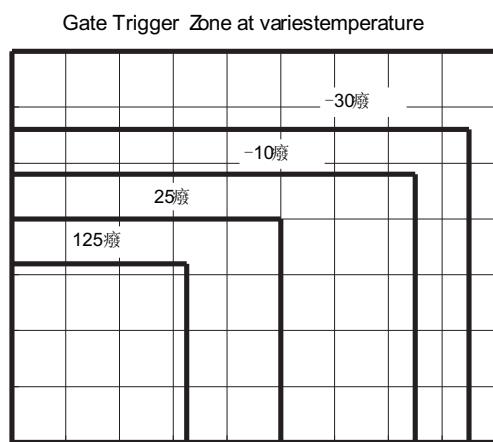


Fig. 10

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Outside Dimension

