

Features:

- Isolated mounting base 2500V~
- Pressure contact technology with Increased power cycling capability
- Space and weight savings

Typical Applications

- AC/DC Motor drives
- Various rectifiers
- DC supply for PWM inverter

$I_{T(AV)}$ **90A**
 V_{DRM}/V_{RRM} **600~1800V**
 I_{TSM} **$2.25 A \times 10^3$**
 I^2t **$25.0 A^2 S \cdot 10^3$**



SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T _J (°C)	VALUE			UNIT
				Min	Type	Max	
I _{T(AV)}	Mean on-state current	180° half sine wave 50Hz Single side cooled, T _c =85°C	125			90	A
I _{T(RMS)}	RMS on-state current		125			141	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} +100V respectively	125	600		1600	V
I _{DRM} I _{RRM}	Repetitive peak current	at V _{DRM} at V _{RRM}	125			10	mA
I _{TSM}	Surge on-state current	10ms half sine wave	125			2.25	KA
I ² t	I ² T for fusing coordination	V _R =60%V _{RRM}				25.0	A ² s*10 ³
V _{TO}	Threshold voltage		125			0.8	V
r _T	On-state slop resistance					3.01	mΩ
V _{TM}	Peak on-state voltage	I _{TM} =270A	25			1.70	V
dv/dt	Critical rate of rise of off-state voltage	V _{DM} =67%V _{DRM}	125			800	V/μs
di/dt	Critical rate of rise of on-state current	Gate source 1.5A t _r ≤0.5μs Repetitive	125			100	A/μs
I _{GT}	Gate trigger current			30		100	mA
V _{GT}	Gate trigger voltage	V _A =12V, I _A =1A	25	1.0		2.5	V
I _H	Holding current			20		120	mA
V _{GD}	Non-trigger gate voltage	V _{DM} =67%V _{DRM}	125	0.2			V
R _{th(j-c)}	Thermal resistance Junction to case	Single side cooled				0.280	°C /W
R _{th(c-h)}	Thermal resistance case to heatsink	Single side cooled				0.15	°C /W
V _{iso}	Isolation voltage	50Hz, R.M.S, t=1min, I _{iso} :1mA(MAX)		2500			V
F _m	Thermal connection torque(M5)				4.0		N·m
	Mounting torque(M6)				6.0		N·m
T _{stg}	Stored temperature			-40		125	°C
W _t	Weight				120		g
Outline	W20						

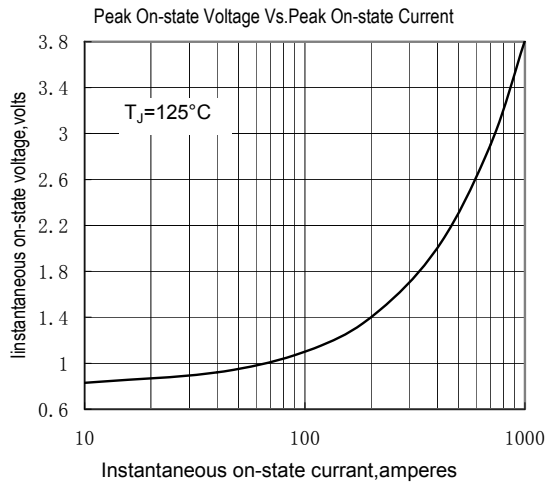


Fig.1

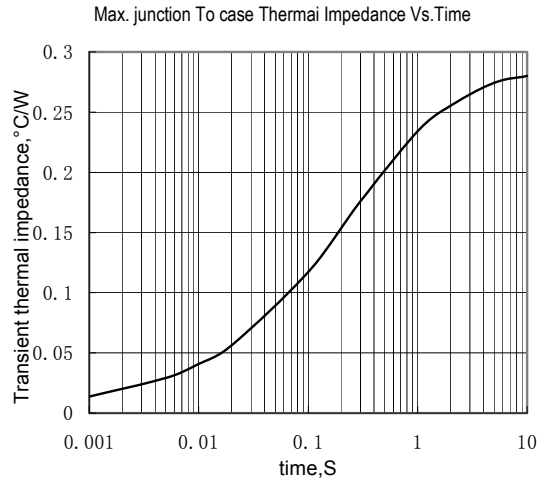


Fig.2

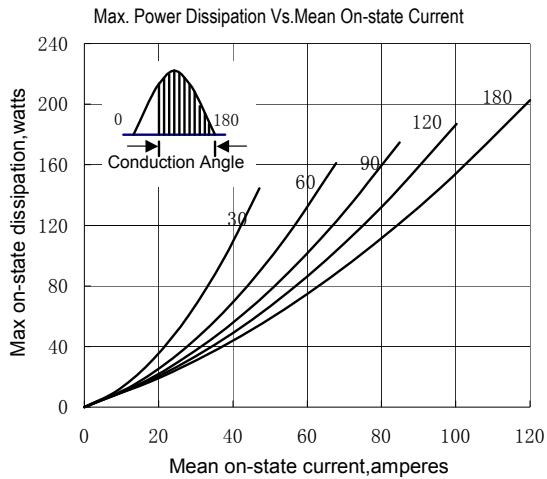


Fig.3

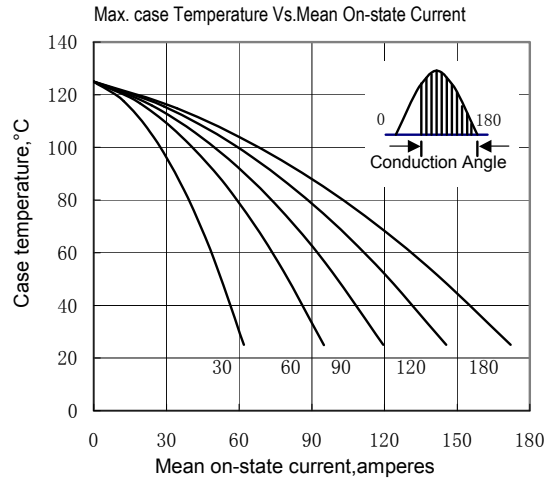


Fig.4

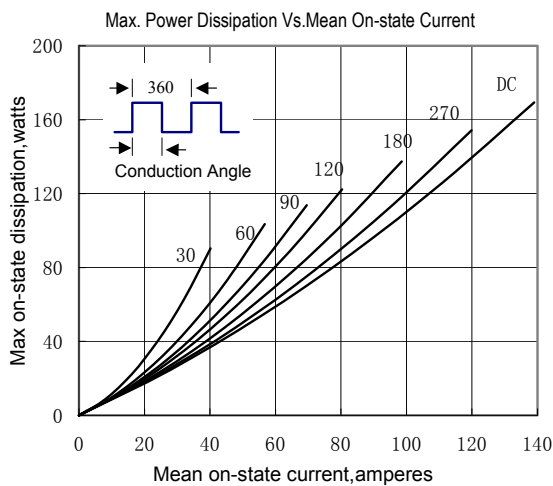


Fig.5

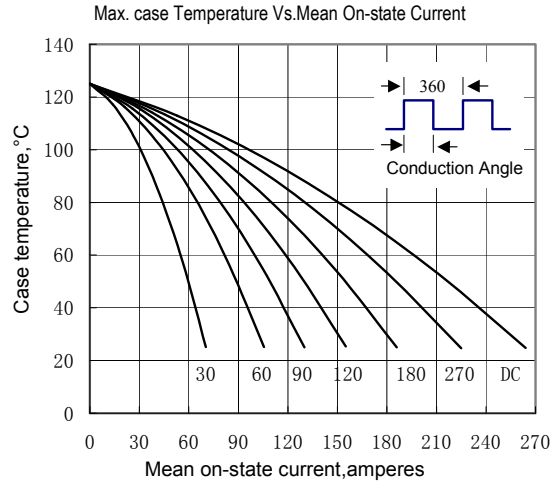


Fig.6

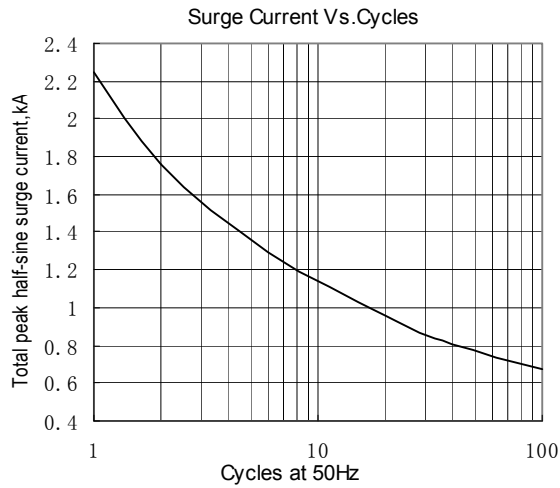


Fig. 7

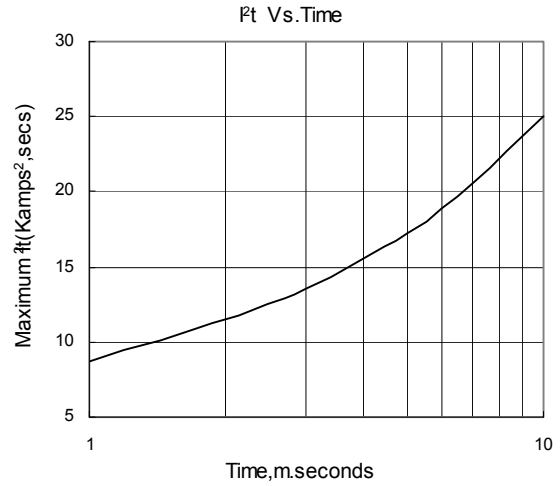


Fig. 8

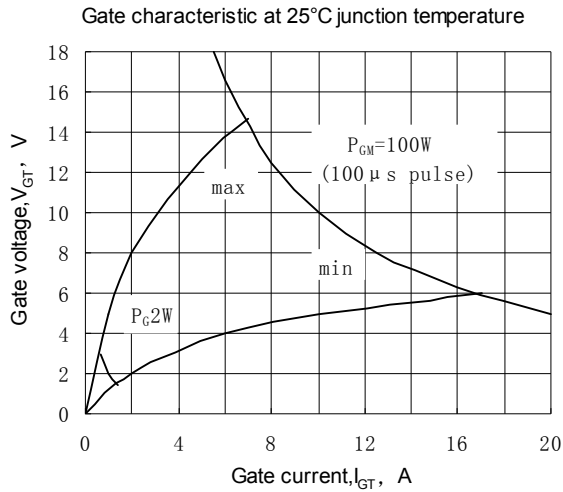


Fig. 9

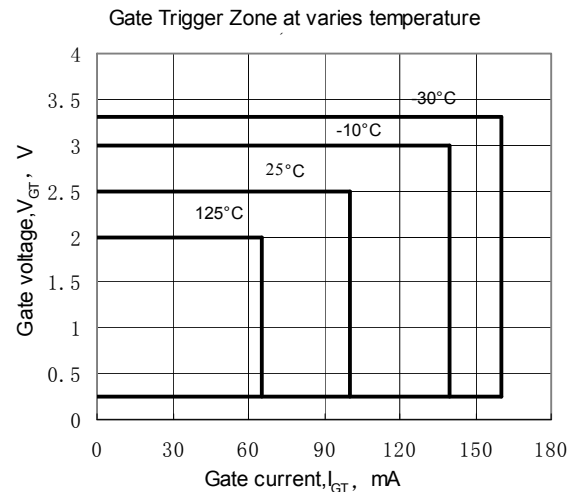
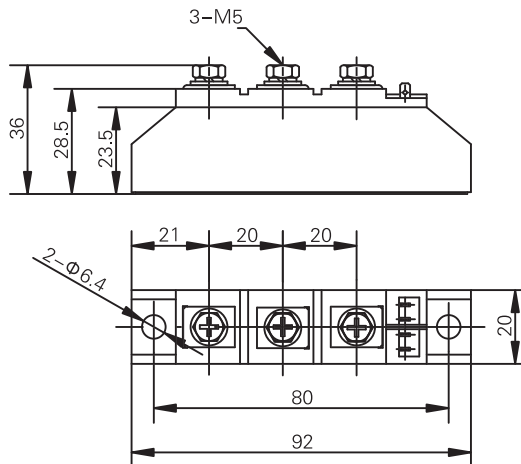
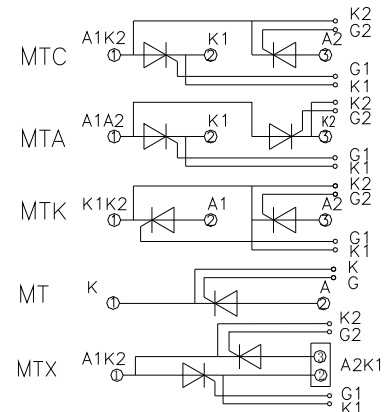


Fig. 10

Outline:



W20



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