

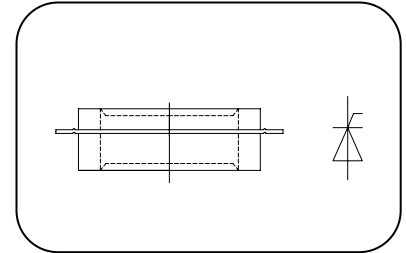
Features:

- Center amplifying gate
- Metal case with ceramic insulator
- Low on-state and switching losses

Typical Applications

- AC controllers
- DC and AC motor control
- Controlled rectifiers

$I_{T(AV)}$ **530A**
 V_{DRM}/V_{RRM} **1100~1800V**
 I_{TSM} **2.5 kA**
 I^2t **$31.25 \cdot 10^3 A^2S$**



SYMBOL	CHARACTERISTIC	TEST CONDITIONS		T _j (°C)	VALUE			UNIT
					Min	Type	Max	
I _{T(AV)}	Mean on-state current	180° half sine wave 50Hz Double side cooled,	T _C =70°C	125			530	A
V _{DRM} V _{RRM}	Repetitive peak off-state voltage Repetitive peak reverse voltage	tp=10ms		125	1100		1800	V
I _{DRM} I _{RRM}	Repetitive peak current	at V _{DRM} at V _{RRM}		125			30	mA
I _{TSM}	Surge on-state current	10ms half sine wave		125			2.5	kA
I ² t	I ² t for fusing coordination	V _R =0.6V _{RRM}						31.25
V _{TO}	Threshold voltage			125			0.89	V
r _T	On-state slope resistance							1.10
V _{TM}	Peak on-state voltage	I _{TM} =600A, F=7.0kN		25			2.40	V
dv/dt	Critical rate of rise of off-state voltage	V _{DM} =0.67V _{DRM}		125			300	V/μs
di/dt	Critical rate of rise of on-state current	V _{DM} = 67%V _{DRM} to 800A, Gate pulse t _r ≤0.5 μ s I _{GM} =1.5A Repetitive		125			100	A/μs
Q _{rr}	Recovery charge	I _{TM} =1000A, tp=2000μs, di/dt=-20A/μs, V _R =50V		125		600		μC
I _{GT}	Gate trigger current	V _A =12V, I _A =1A		25	35		250	mA
V _{GT}	Gate trigger voltage				0.8		2.0	V
I _H	Holding current				20		150	mA
V _{GD}	Non-trigger gate voltage	V _{DM} =67%V _{DRM}		125	0.3			V
R _{th(j-c)}	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 7.0kN					0.045	°C /W
R _{th(c-h)}	Thermal resistance case to heatsink						0.015	
F _m	Mounting force				5.3		12	kN
T _{stg}	Stored temperature				-40		140	°C
W _t	Weight					85		g
Outline	KA28							

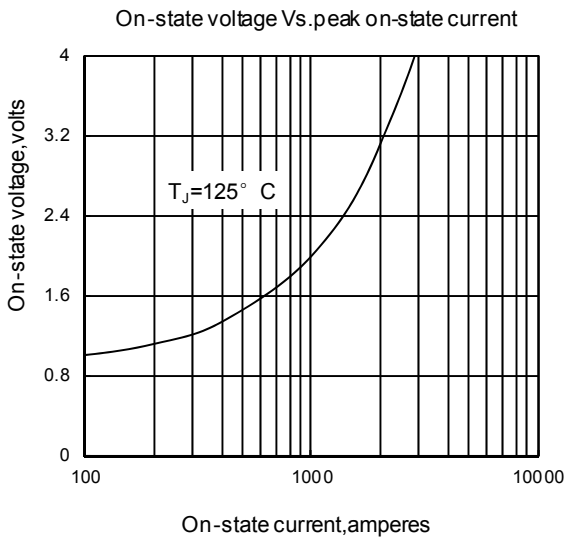


Fig1

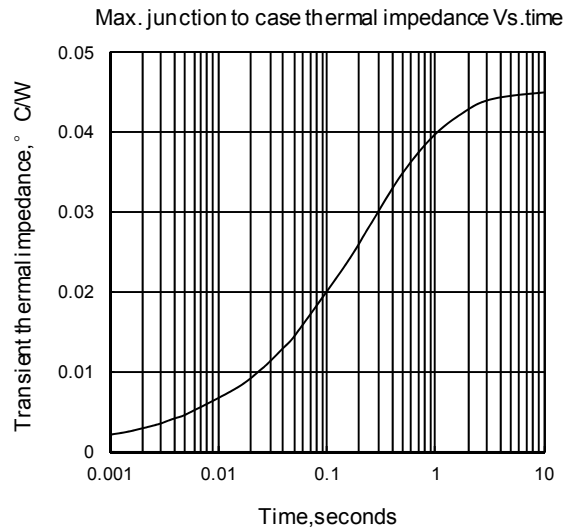


Fig2

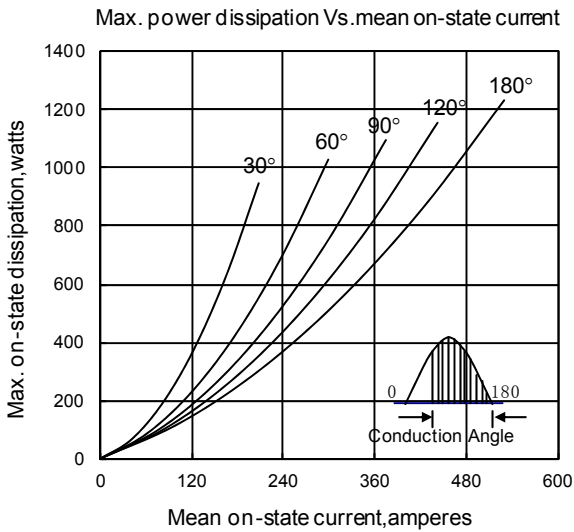


Fig3

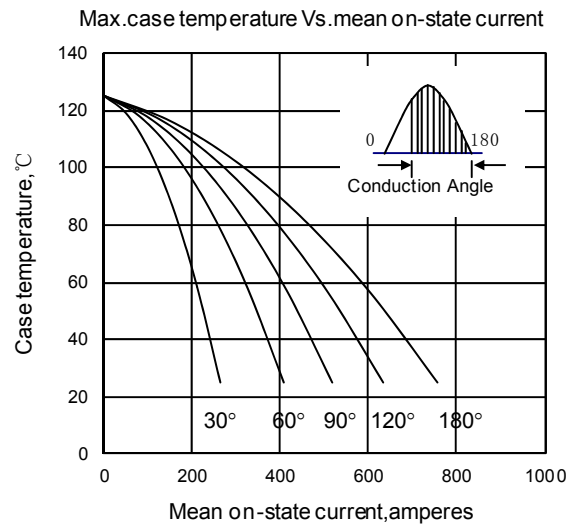


Fig4

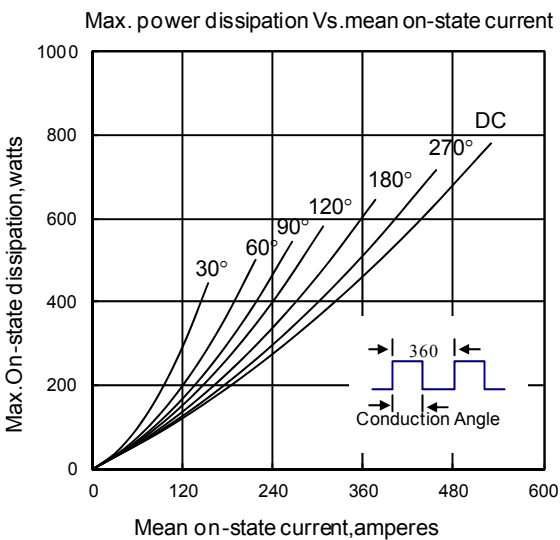


Fig5

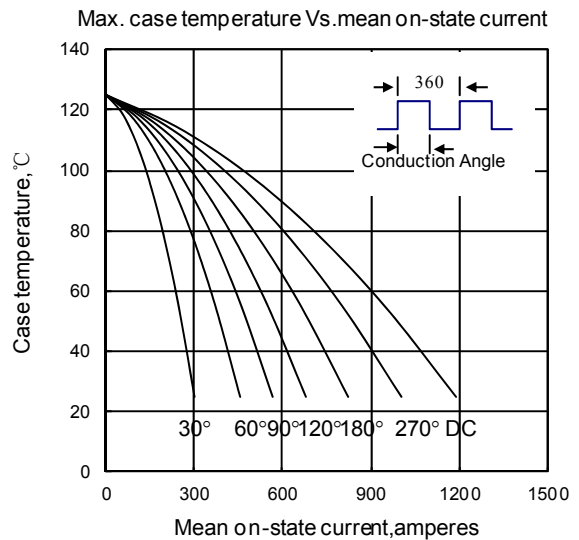


Fig6

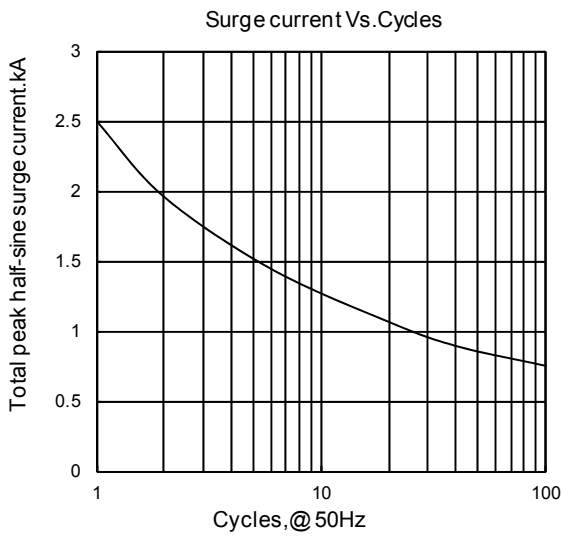


Fig7

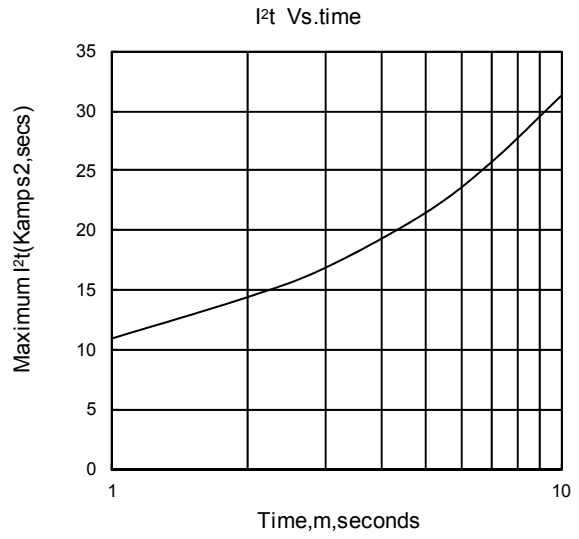


Fig8

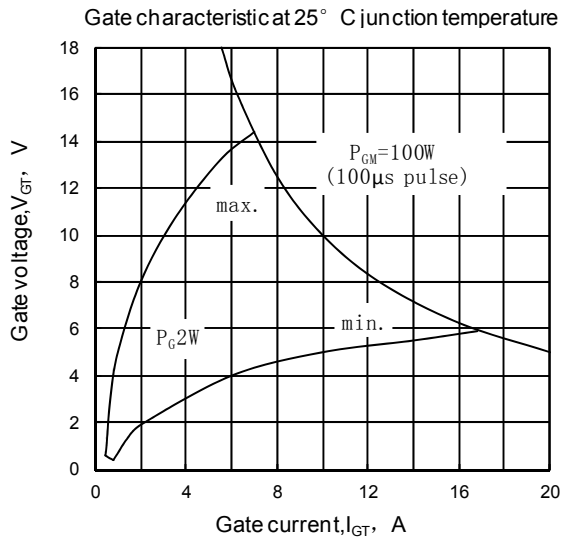


Fig9

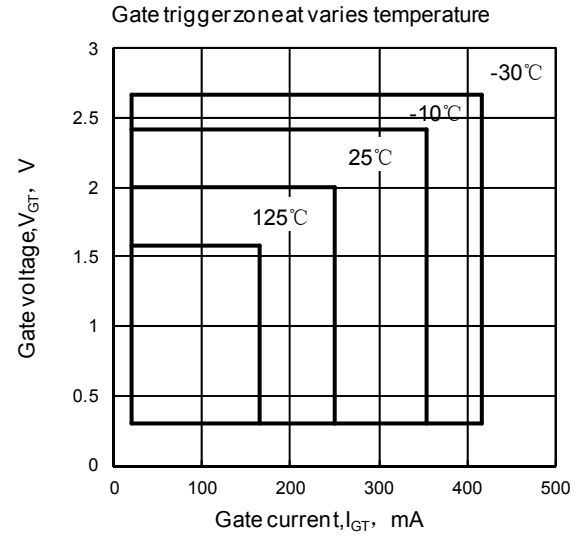


Fig10

Outline:

