

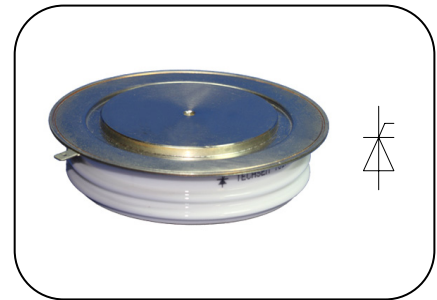
Features

- 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

$I_{T(AV)}$ **1330A**
 V_{DRM}/V_{RRM} **4300~5200V**
 I_{TSM} **17 kA**
 I^2t **1445 10³A²S**



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			1330	A
V _{DRM} V _{RRM}	Repetitive peak off-state voltage Repetitive peak reverse voltage	tp=10ms		125	4300		5200	V
I _{DRM} I _{RRM}	Repetitive peak current	at V _{DRM} at V _{RRM}		125			120	mA
I _{TSM}	Surge on-state current	10ms half sine wave		125			17	kA
I ² t	I ² t for fusing coordination	V _R =0.6V _{RRM}					1445	A ² s*10 ³
V _{TO}	Threshold voltage			125			1.30	V
r _T	On-state slope resistance						0.58	mΩ
V _{TM}	Peak on-state voltage	I _{TM} =3000A, F=32kN		25			3.00	V
dv/dt	Critical rate of rise of off-state voltage	V _{DM} =0.67V _{DRM}		125			1000	V/μs
di/dt	Critical rate of rise of on-state current	V _{DM} = 67%V _{DRM} to 2000A, Gate source 1.5A t _r ≤0.5μs		125			200	A/μs
Q _{rr}	Recovery charge	I _{TM} =2000A, tp=2000μs, di/dt=-20A/μs, V _R =50V		125		2000		μC
I _{GT}	Gate trigger current			25	40		300	mA
V _{GT}	Gate trigger voltage	V _A =12V, I _A =1A			0.8		3.0	V
I _H	Holding current				20		250	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 32kN					0.0130	°C /W
R _{th(c-h)}	Thermal resistance case to heatsink						0.0035	
F _m	Mounting force				27		34	kN
T _{stg}	Stored temperature				-40		140	°C
W _t	Weight					820		g
Outline	KT60cT65							

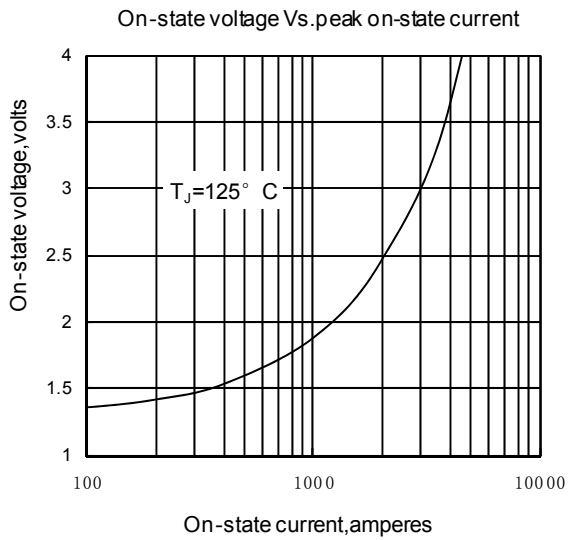


Fig1

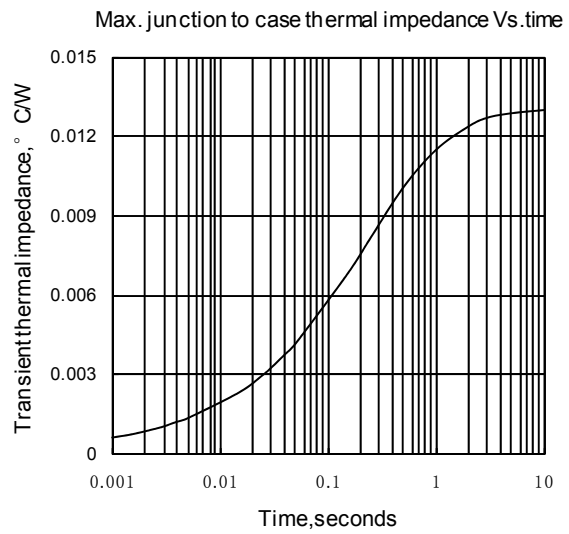


Fig2

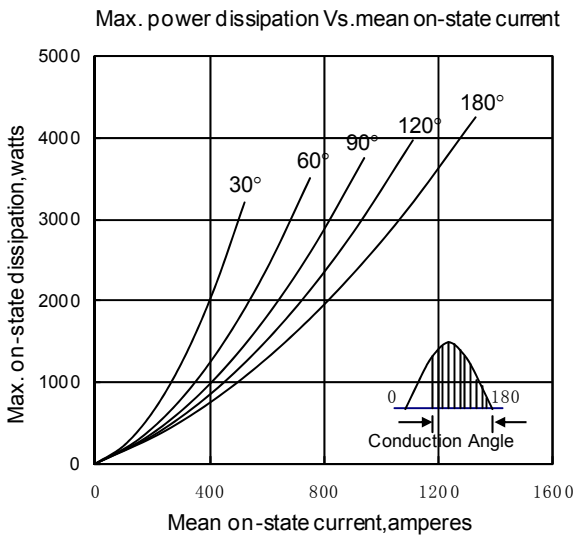


Fig3

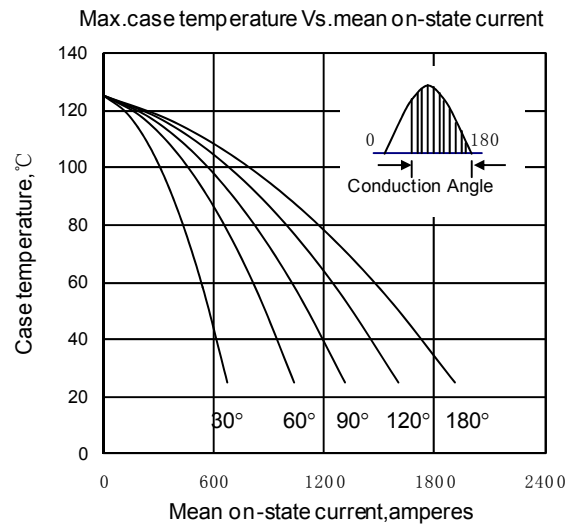


Fig4

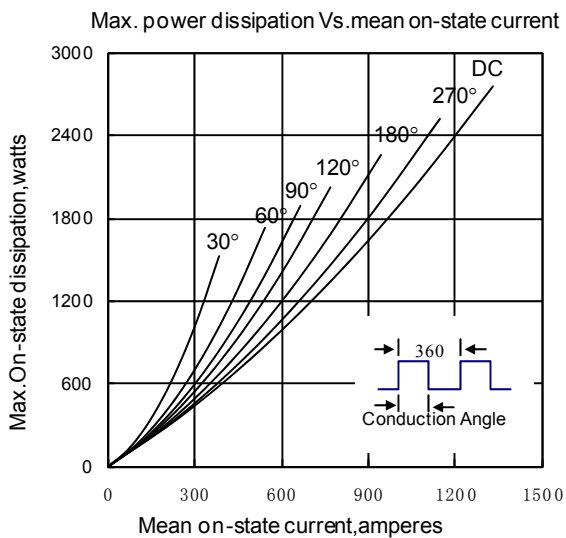


Fig5

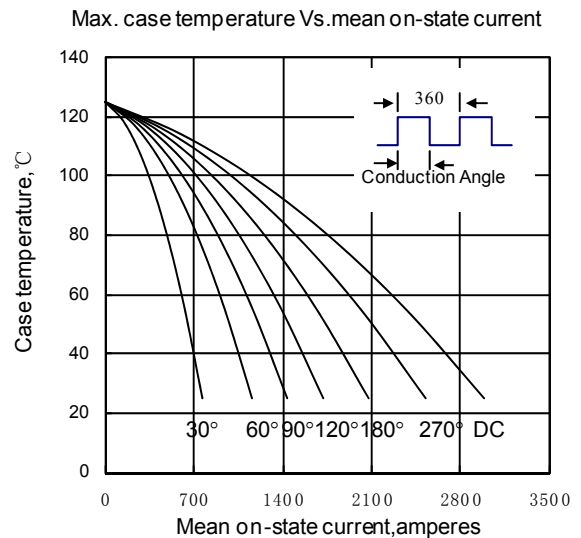


Fig6

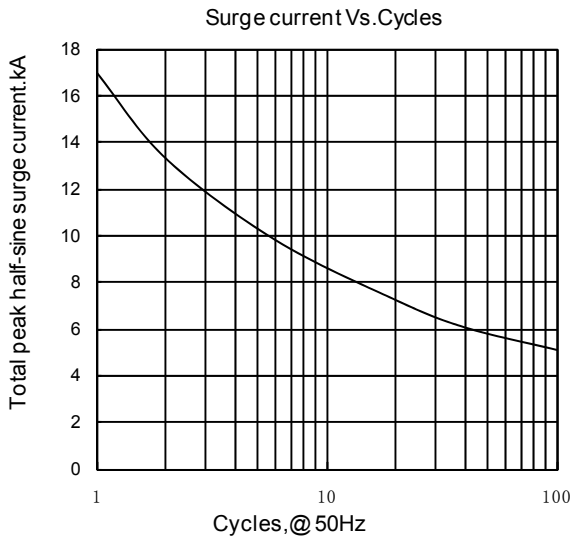


Fig7

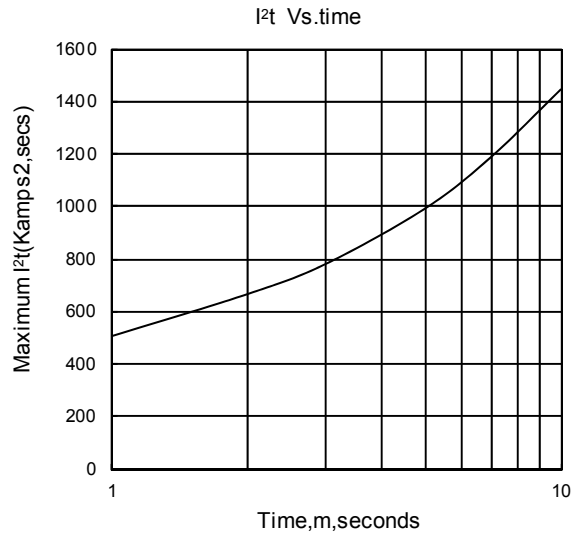


Fig8

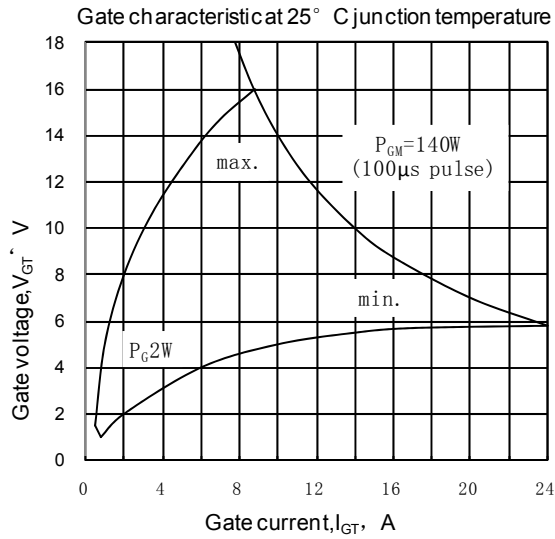


Fig9

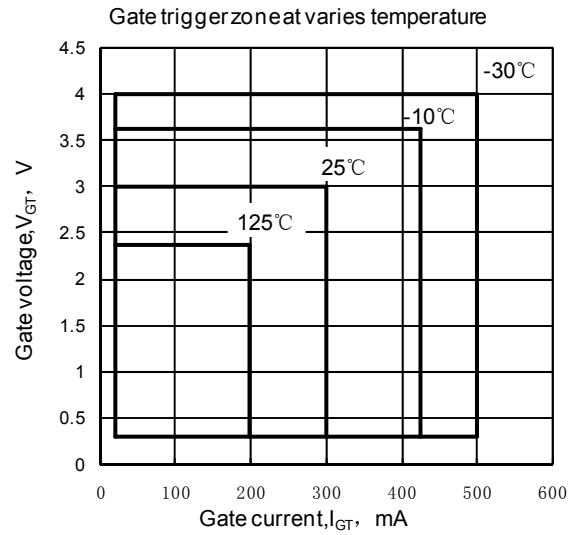


Fig10

Outline:

