



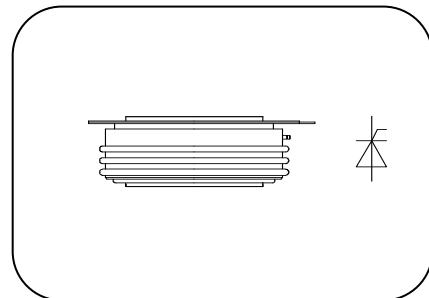
Features

- 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)} **1800A**
V_{DRM/V_{RRM}} **1100~1800V**
I_{TSM} **35 kA**
I²t **6125 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		1800	2460	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	125	1100		1800	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			35	kA
I ² t	I ² t for fusing coordination	V _R =0.6V _{RRM}				6125	A ² s*10 ³
V _{TO}	Threshold voltage		125			0.87	V
r _T	On-state slope resistance					0.14	mΩ
V _{TM}	Peak on-state voltage	I _{TM} =4000A, F=32kN	25			2.20	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} , ITM=(2~3)ITAV, t=5s, Gate pulse t _f ≤0.5μs I _{GM} =1.5A, f=50Hz	125			200	A/μs
Q _{rr}	Recovery charge	I _{TM} =2000A, tp=1000μs, di/dt=-20A/μs, V _R =100V	125		1800		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		300	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				0.0130	°C /W
R _{th(c-h)}	Thermal resistance case to heatsink	Clamping force 32.0kN				0.0035	
F _m	Mounting force			27		34	kN
T _{stg}	Stored temperature			-40		140	°C
W _t	Weight			820/1080			g
Outline	KT70cT/KT70dT						

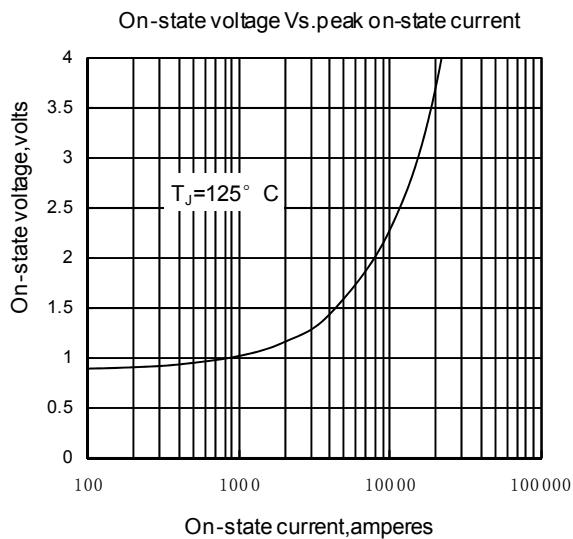


Fig1

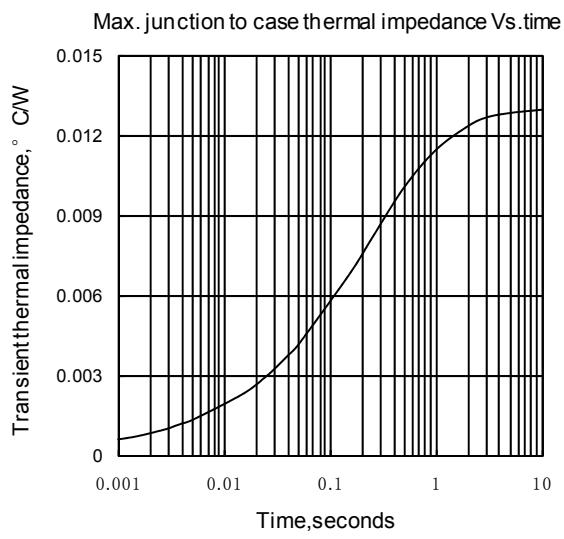


Fig2

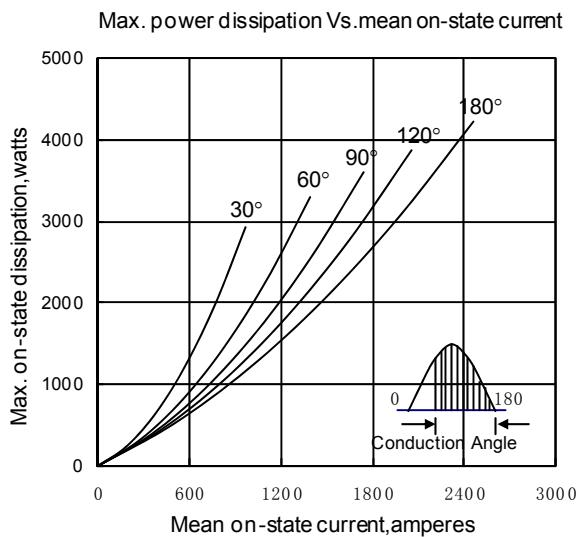


Fig3

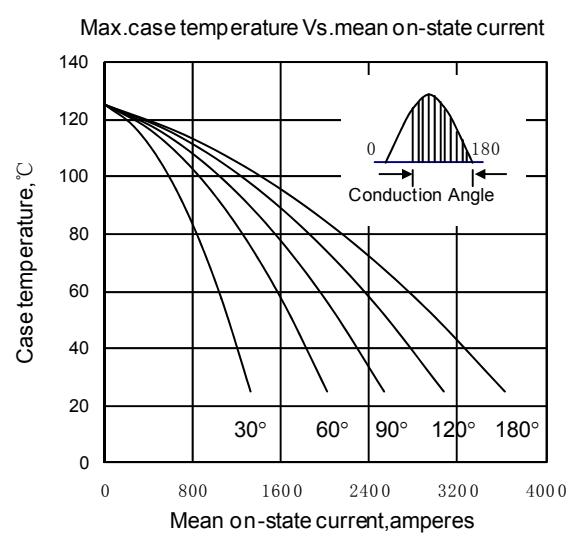


Fig4

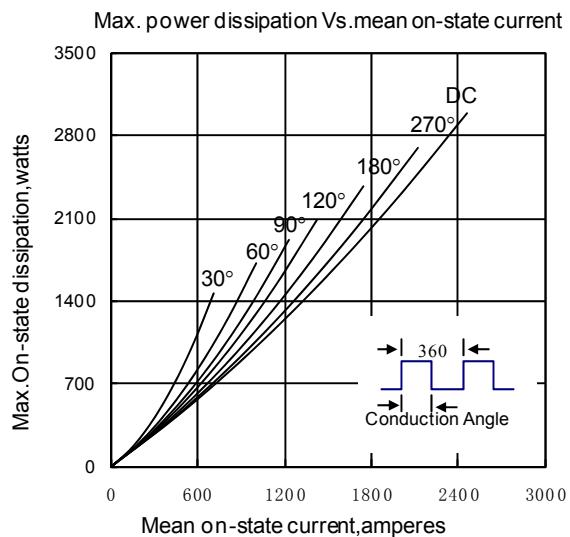


Fig5

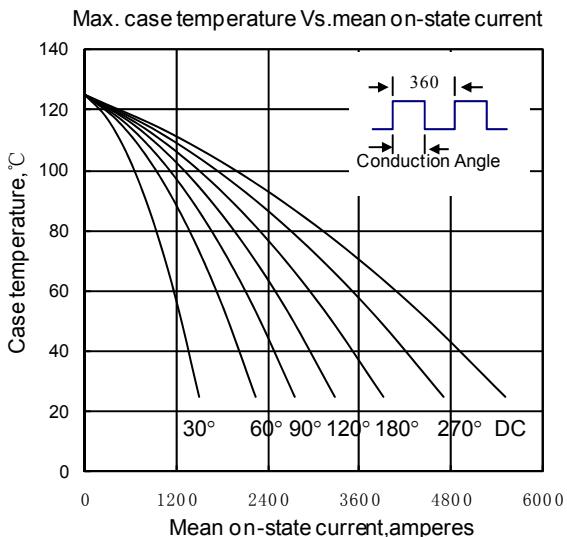


Fig6

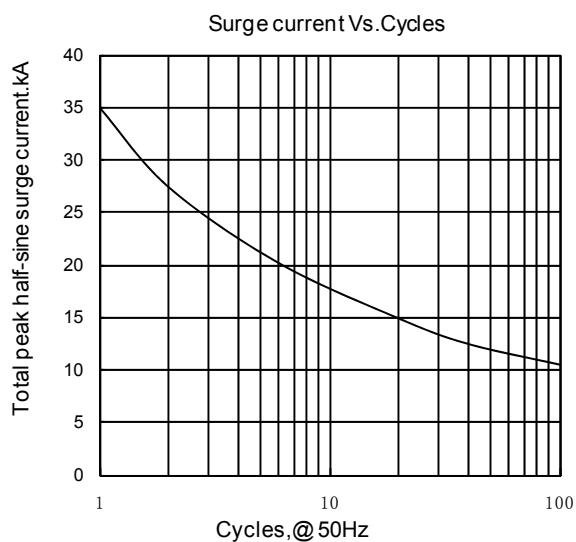


Fig7

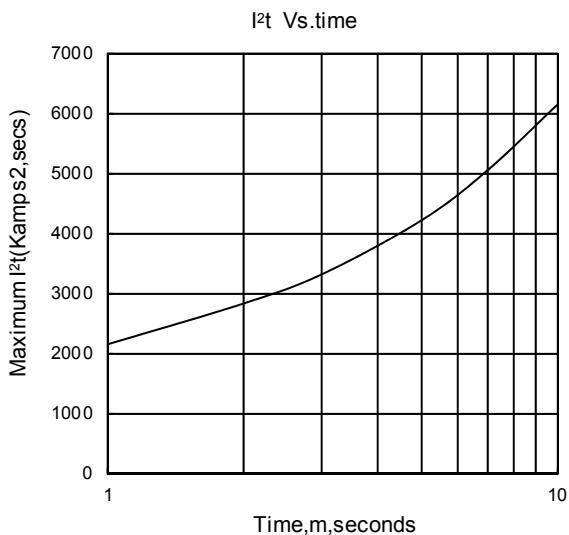


Fig8

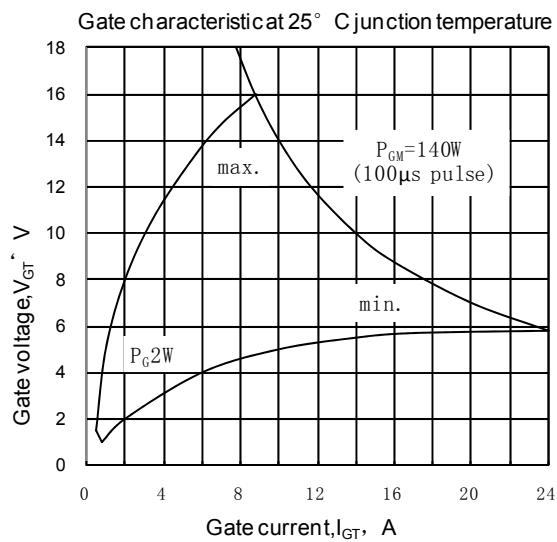


Fig9

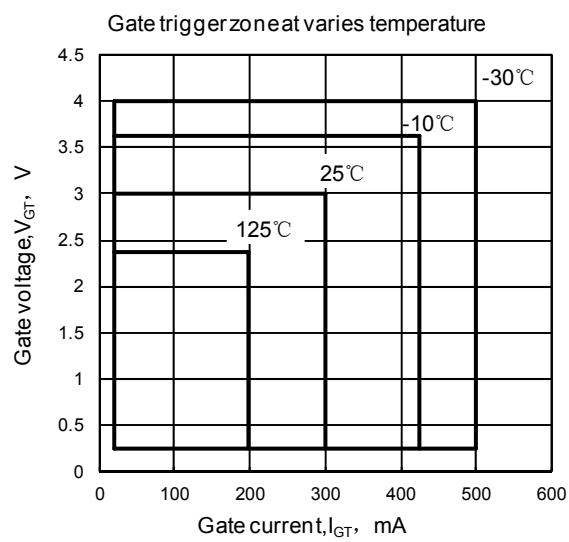


Fig10

Outline: 图12-KT70cT

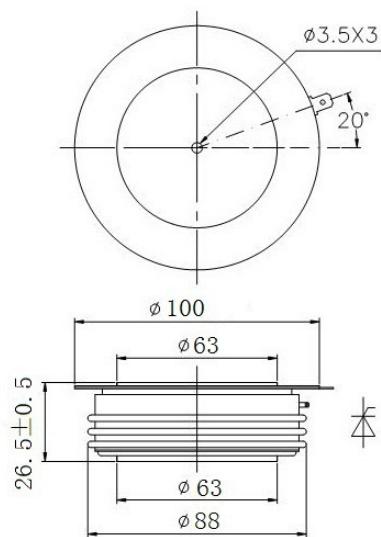


图13-KT70dT

