



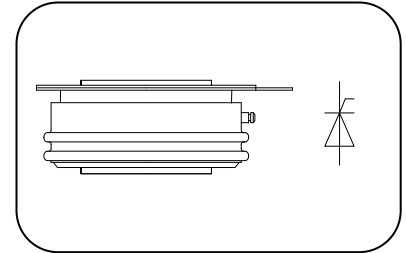
Features

- Interdigitated amplifying gates
- Fast turn-on and high di/dt
- Low switching losses

Typical Applications

- Inductive heating
- Electronic welders
- Self-commutated inverters

$I_{T(AV)}$ 1800A
 V_{DRM}/V_{RRM} 1200~1800V
 t_q 18~37 μ s
 I_{TSM} 21 kA
 I^2t 2205 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 =55°C	125		1800	2080	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	1200		1800	V
I_{DRM} I_{RRM}	Repetitive peak current	$V_D=V_{DRM}$ $V_R=V_{RRM}$	125			140	mA
I_{TSM}	Surge on-state current	10ms half sine wave	125			21	kA
I^2t	I ² T for fusing coordination					2205	A ² s*10 ³
V_{TO}	Threshold voltage		125			1.41	V
r_T	On-state slop resistance					0.23	mΩ
V_{TM}	Peak on-state voltage	$I_{TM}=4000A$, F=32kN	25			3.15	V
dv/dt	Critical rate of rise of off-state voltage	$V_{DM}=0.67V_{DRM}$	125			1000	V/ μ s
di/dt	Critical rate of rise of on-state current	$V_{DM}=67\%V_{DRM}$, $I_{TM}=(2-3)I_{T(AV)}$, t=5s, Gate pulse t _r ≤0.5 μ s I _{GM} =1.5A f=50Hz	125			600	A/ μ s
Q _{rr}	Recovery charge	$I_{TM}=1800A$, tp=1000 μ s, di/dt=-20A/ μ s, V _R =100V	125		860		μ C
t _q	Circuit commutated turn-off time	$I_{TM}=1800A$, tp=1000 μ s, V _R =100V dv/dt=30V/ μ s, di/dt=-20A/ μ s	125	18		37	μ s
I _{GT}	Gate trigger current	V _A =12V, I _A =1A	25	40		250	mA
V _{GT}	Gate trigger voltage			0.9		2.5	V
I _H	Holding current			20		400	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				0.013	°C /W
R _{th(c-h)}	Thermal resistance case to heat sink					0.0035	
F _m	Mounting force			27		36	kN
T _{stg}	Stored temperature			-40		140	°C
W _t	Weight				820/1080		g
Outline	KT70C/T/dT						

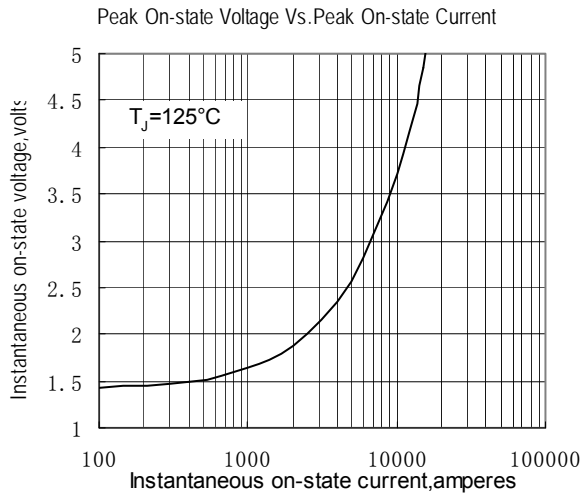


Fig.1

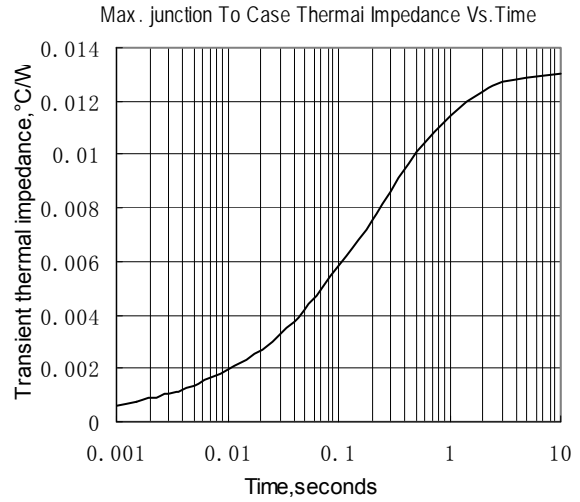


Fig.2

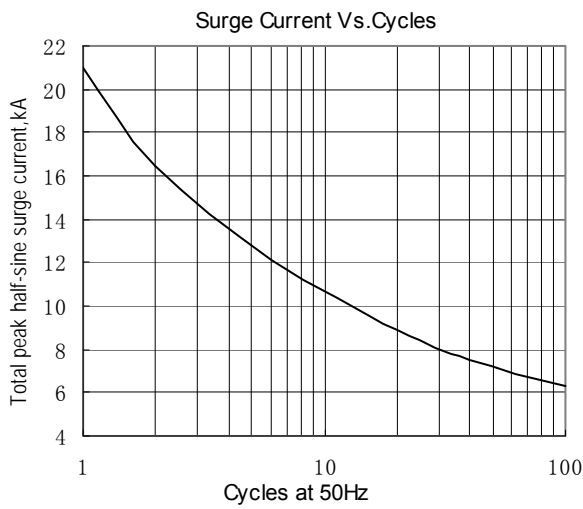


Fig.3

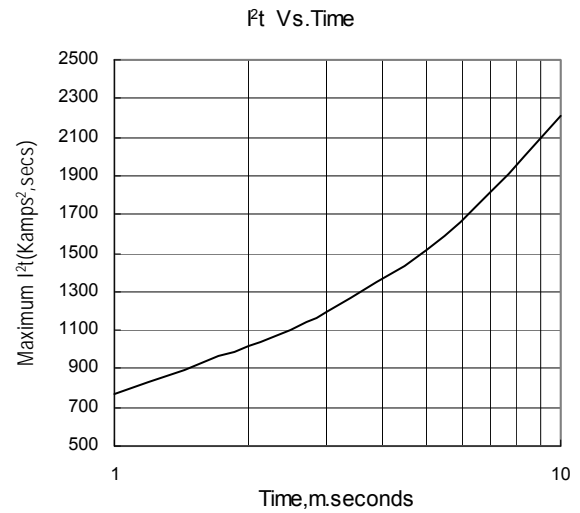


Fig.4

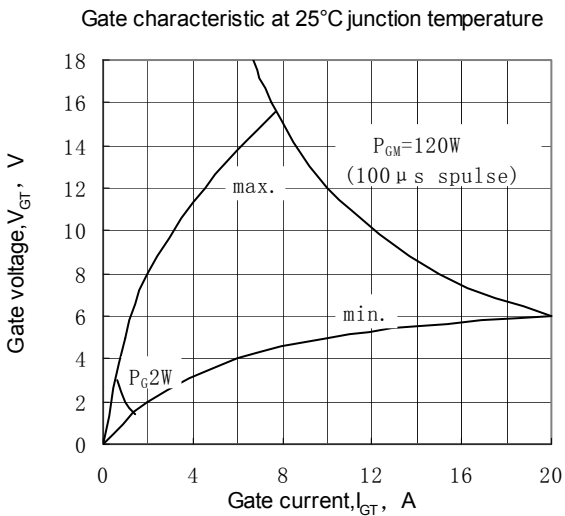


Fig.5

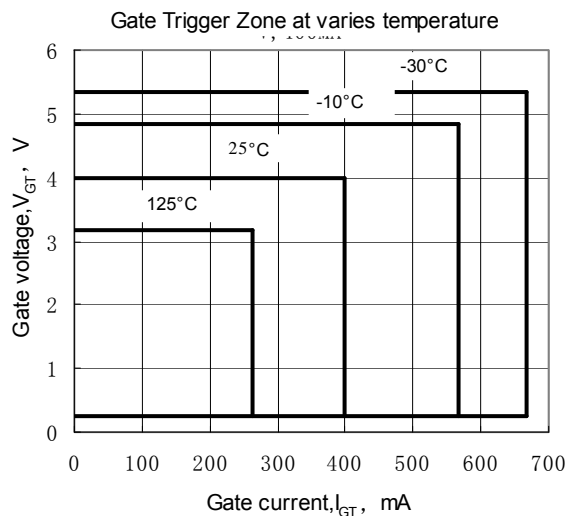


Fig.6



Outline:

图12-KT70cT

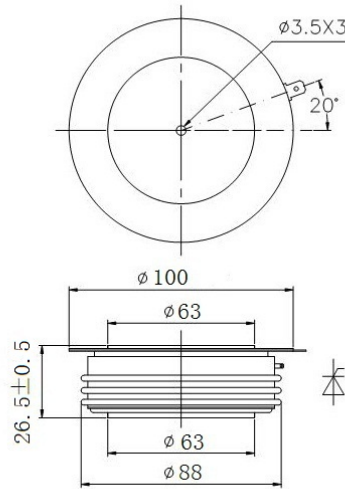
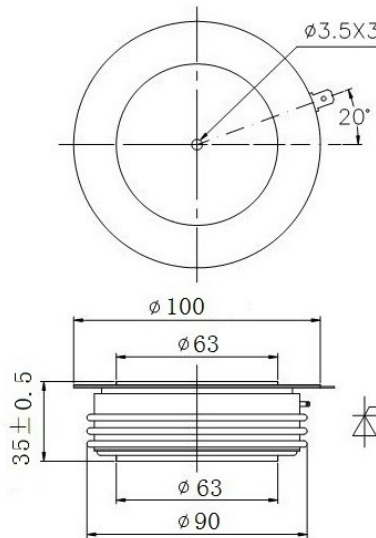


图13-KT70dT



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