



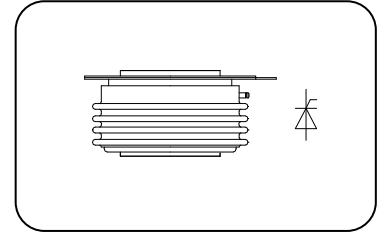
Features

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

Typical Applications

- Inductive heating
- Electronic welders
- Self-commutated inverters

$I_{T(AV)}$ 2000A
 V_{DRM}/V_{RRM} 1200~1800V
 t_q 18~37 μ s
 I_{TSM} 23 kA
 I^2t 2645 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		2000	2240	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			160	mA
I_{TSM}	Surge on-state current	10ms half sine wave	125			23	kA
I^2t	I ² T for fusing coordination					2645	A ² s*10 ³
V_{TO}	Threshold voltage		125			1.45	V
r_T	On-state slop resistance					0.21	mΩ
V_{TM}	Peak on-state voltage	I _{TM} =4000A, F=35kN	25			3.15	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} , I _{TM} =(2-3)I _{T(AV)} ,t=5s, Gate pulse t _r ≤0.5μs I _{GM} =1.5A f=50Hz	125			600	A/μs
Q _{rr}	Recovery charge	I _{TM} =2000A,tp=1000μs, di/dt=-20A/μs,V _R =100V	125		900		μC
t _q	Circuit commutated turn-off time	I _{TM} =2000A,tp=1000μs, V _R =100V dv/dt=30V/μs , di/dt=-20A/μs	125	18		37	μs
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 35kN				0.012	°C /W
R _{th(c-h)}	Thermal resistance case to heat sink					0.003	
F _m	Mounting force			30		40	kN
T _{stg}	Stored temperature			-40		140	°C
W _t	Weight				900/1190		g
Outline	KT75cT/dT						

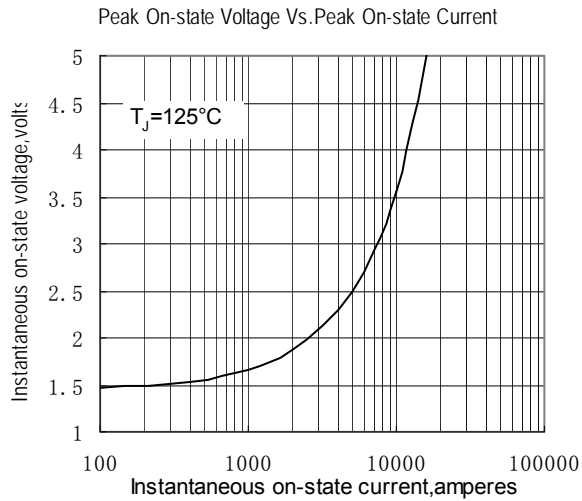


Fig.1

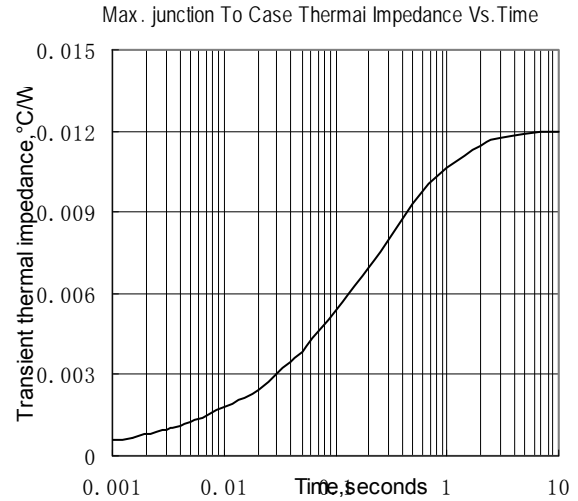


Fig.2

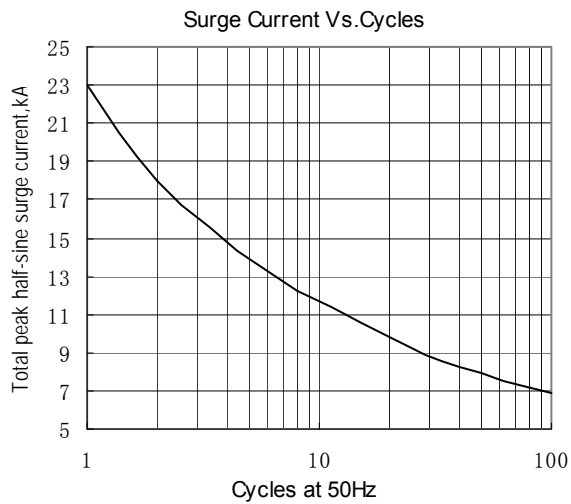


Fig.3

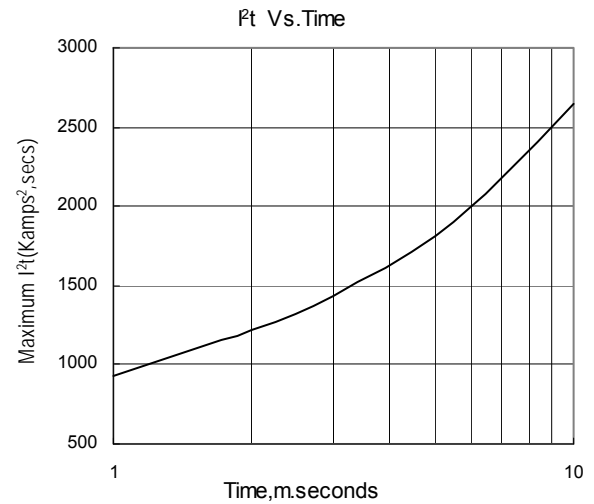


Fig.4

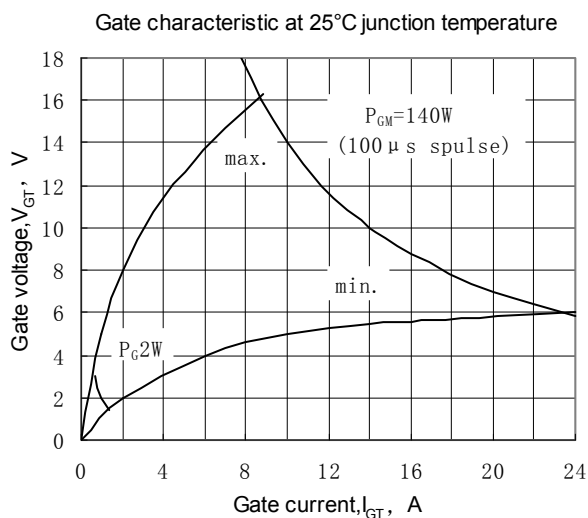


Fig.5

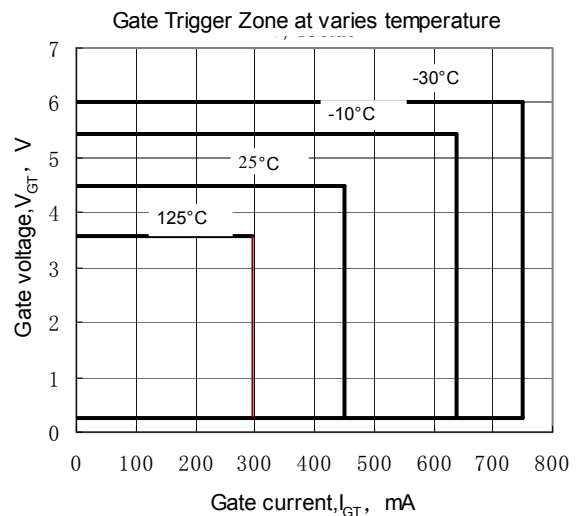


Fig.6



Outline:

图14-KT75cT

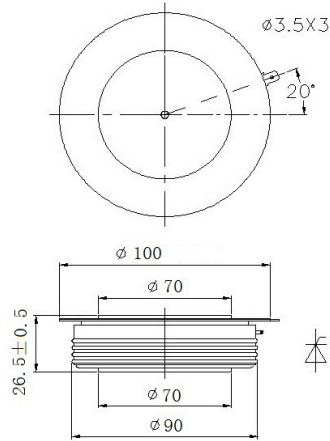
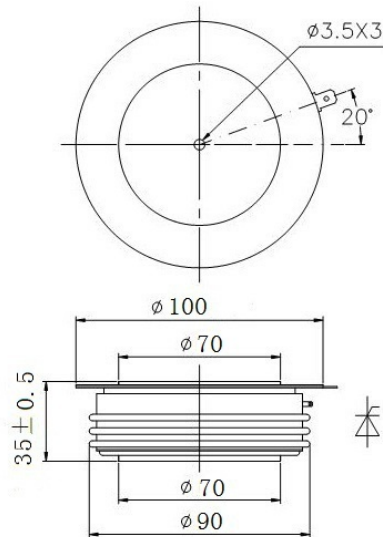


图15-KT75dT



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