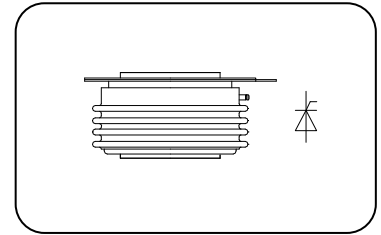




Features:

- Interdigitated amplifying gates
- Fast turn-on and high di/dt
- Low switching losses
- Short turn-off time
- Hermetic metal cases with ceramic insulators

$I_{T(AV)}$ 200A
 V_{DRM}/V_{RRM} 1100~1400V
 t_q 10~16 μ s
 I_{TSM} 5.8kA



Typical Applications

- Inductive heating
- Electronic welders
- Self-commutated inverters
- AC motor speed control
- General power switching applications

SYMBOL	CHARACTERISTIC	TEST CONDITIONS		$T_j(^{\circ}C)$	VALUE			UNIT
					Min	Type	Max	
$I_{T(AV)}$	Mean on-state current	180° half sine wave 50Hz Double side cooled,	$T_c=55^{\circ}C$	125		200	480	A
V_{DRM} V_{RRM}	Repetitive peak off-state voltage Repetitive peak reverse voltage	$V_{DRM} \& V_{RRM}$, $t_p=10ms$ $V_{DSM} \& V_{RSM} = V_{DRM} \& V_{RRM} + 100V$		125	1100		1400	V
I_{DRM} I_{RRM}	Repetitive peak off-state current Repetitive peak reverse current	$V_D = V_{DRM}$ $V_R = V_{RRM}$		125			30	mA
I_{TSM}	Surge on-state current	10ms half sine wave		125			5.8	kA
I^2t	I^2T for fusing coordination	$V_R = 0.6V_{RRM}$					168	$A^2s \cdot 10^3$
V_{TO}	Threshold voltage			125			1.67	V
r_T	On-state slop resistance						1.32	m Ω
V_{TM}	Peak on-state voltage	$I_{TM}=600A, F=7.0kN$		25			3.20	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 $t_r \leq 0.5\mu s$ $I_{GM}=1.5A$ $f=50Hz$		125			600	A/ μ s
Q_{rr}	Recovery charge	$I_{TM}=500A, t_p=1000\mu s$, $di/dt=-20A/\mu s, V_R=100V$		125		38	50	μC
t_q	Circuit commutated turn-off time	$I_{TM}=500A, t_p=1000\mu s, V_R=100V$ $dv/dt=30V/\mu s, di/dt=-20A/\mu s$		125	10		16	μs
I_{GT}	Gate trigger current	$V_A=12V, I_A=1A$		25	30		200	mA
V_{GT}	Gate trigger voltage				0.8		2.5	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 7.0kN					0.045	$^{\circ}C/W$
$R_{th(c-h)}$	Thermal resistance case to heat sink						0.010	
F_m	Mounting force				5.3		10	kN
T_{stg}	Stored temperature				-40		140	$^{\circ}C$
W_t	Weight					85/195		g
Outline	KT25aT/KT36cT							

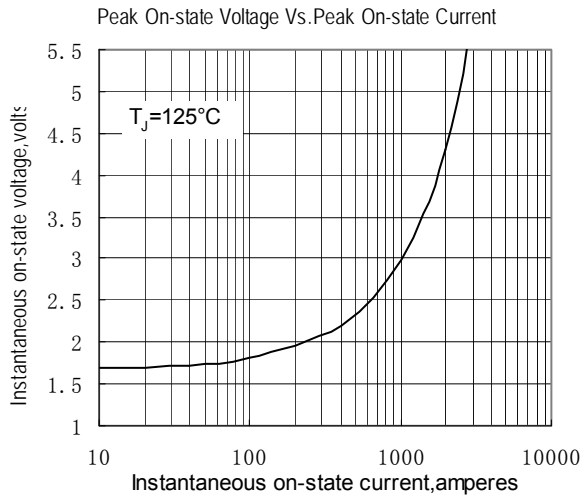


Fig. 1

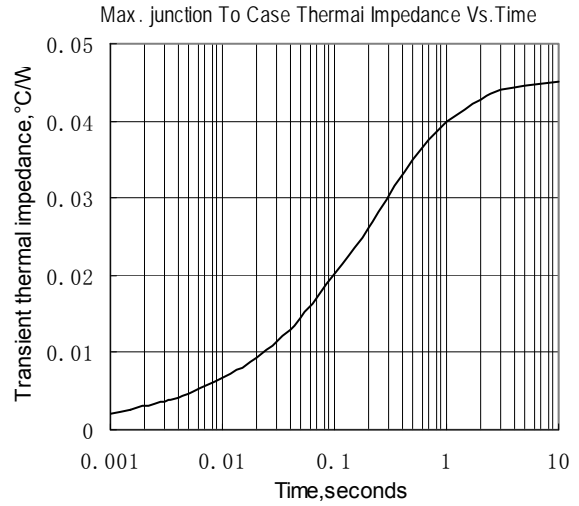


Fig. 2

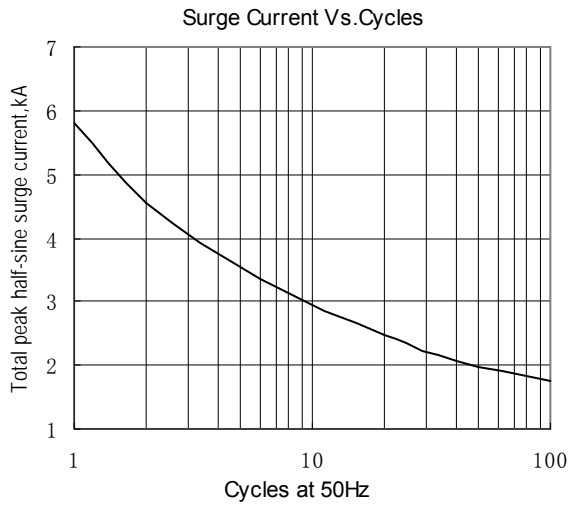


Fig. 3

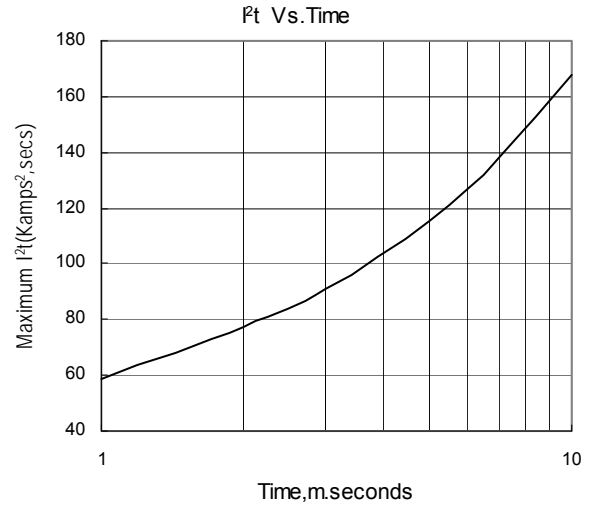


Fig. 4

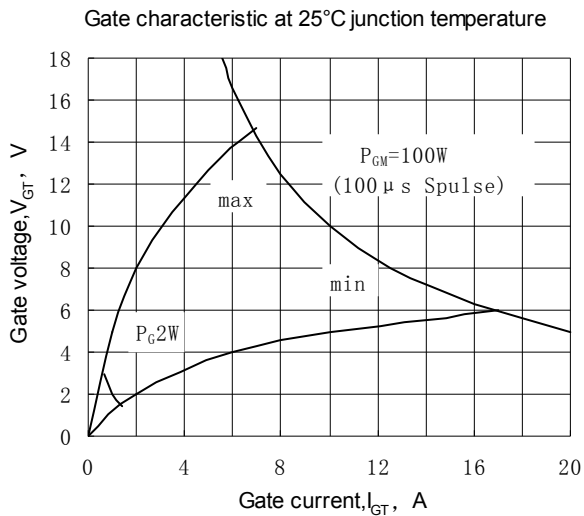


Fig. 5

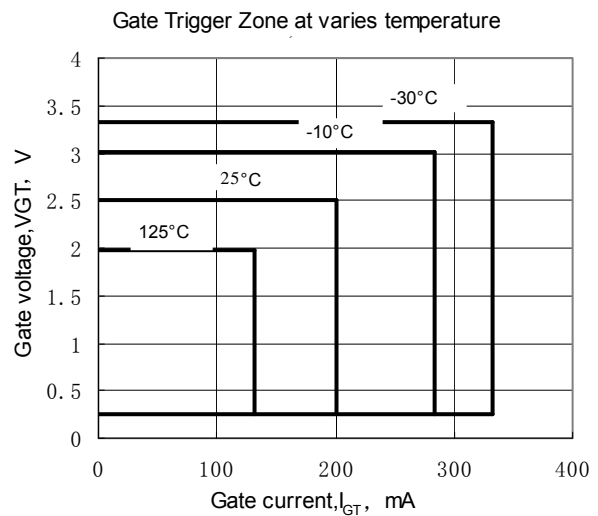


Fig. 6



Outline:

图2-KT30aT

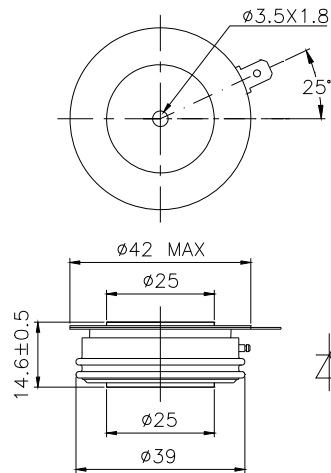
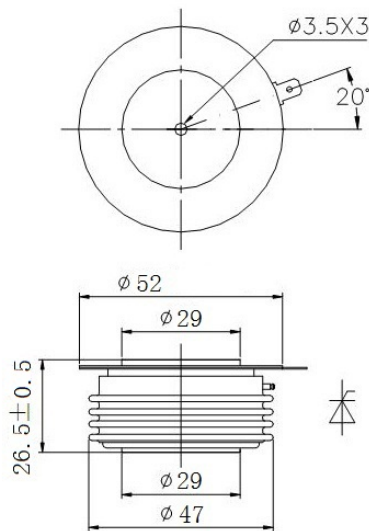


图2-KT36cT



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