



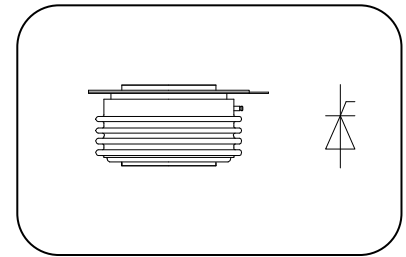
**Features**

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

**Typical Applications**

- Inductive heating
- Electronic welders
- Self-commutated inverters

$I_{T(AV)}$       **200A**  
 $V_{DRM}/V_{RRM}$     **1200~1800V**  
 $t_q$                 **16~35 $\mu$ s**  
 $I_{TSM}$              **2.5 kA**  
 $I^2t$                 **31 10<sup>3</sup>A<sup>2</sup>S**



SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T <sub>j</sub> (°C)	VALUE			UNIT
				Min	Type	Max	
$I_{T(AV)}$	Mean on-state current	180° half sine wave 50Hz Double side cooled, T <sub>C</sub> =55°C	125		200	320	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			30	mA
$I_{TSM}$	Surge on-state current	10ms half sine wave	125			2.5	kA
$I^2t$	$I^2T$ for fusing coordination	$V_R$ =0.6 $V_{RRM}$				31	A <sup>2</sup> s*10 <sup>3</sup>
$V_{TO}$	Threshold voltage		125			1.60	V
$r_T$	On-state slop resistance					1.32	mΩ
$V_{TM}$	Peak on-state voltage	$I_{TM}$ =600A, F=7.0kN	25			3.0	V
dv/dt	Critical rate of rise of off-state voltage	$V_{DM}$ =0.67 $V_{DRM}$	125			1000	V/ $\mu$ 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 <sub>g</sub> ≤0.5 $\mu$ s I <sub>GM</sub> =1.5A f=50Hz	125			300	A/ $\mu$ s
Q <sub>rr</sub>	Recovery charge	$I_{TM}$ =600A, tp=1000 $\mu$ s, di/dt=-20A/ $\mu$ s, V <sub>R</sub> =100V	125		80		$\mu$ C
t <sub>q</sub>	Circuit commutated turn-off time	$I_{TM}$ =600A, tp=1000 $\mu$ s, V <sub>R</sub> =100V dv/dt=30V/ $\mu$ s , di/dt=-20A/ $\mu$ s	125	16		35	$\mu$ s
I <sub>GT</sub>	Gate trigger current	$V_A$ =12V, I <sub>A</sub> =1A	25	40		200	mA
V <sub>GT</sub>	Gate trigger voltage			0.9		2.5	V
I <sub>H</sub>	Holding current			20		300	mA
V <sub>GD</sub>	Non-trigger gate voltage	$V_{DM}$ =67% $V_{DRM}$	125			0.3	V
R <sub>th(j-c)</sub>	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 7.0kN				0.045	°C /W
R <sub>th(c-h)</sub>	Thermal resistance case to heat sink					0.010	
F <sub>m</sub>	Mounting force			5.3		10	kN
T <sub>stg</sub>	Stored temperature			-40		140	°C
W <sub>t</sub>	Weight				85/195		g
Outline	KT25aT/KT36cT						

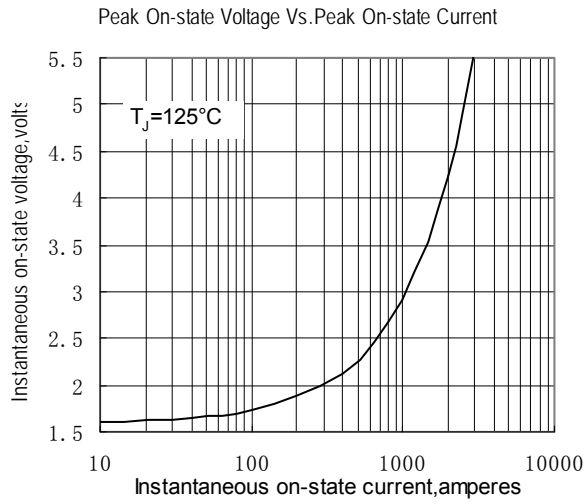


Fig.1

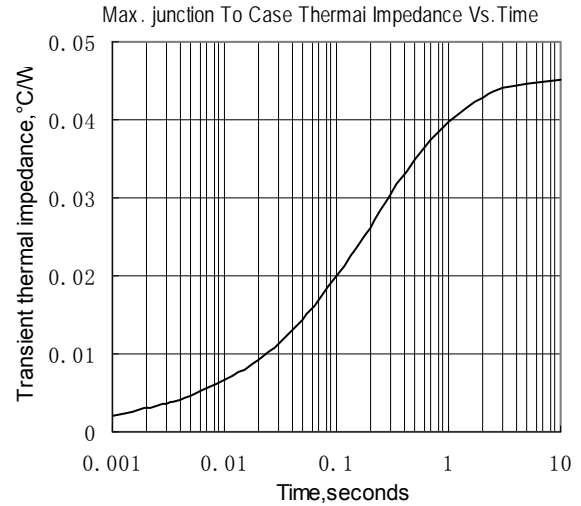


Fig.2

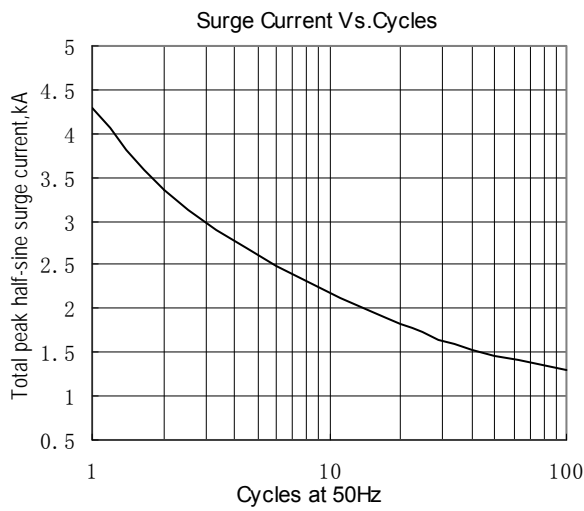


Fig.3

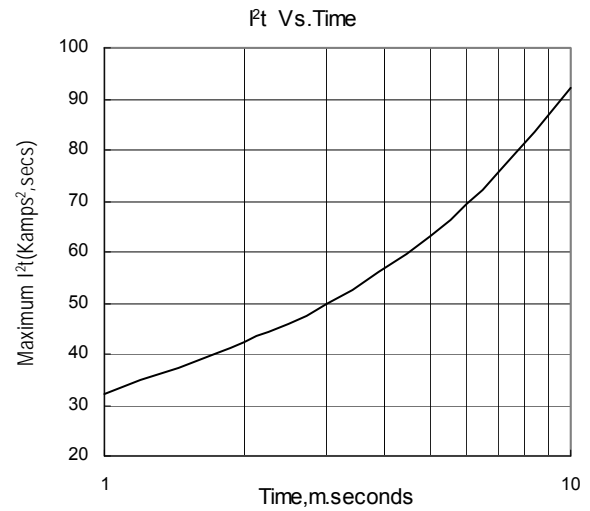


Fig.4

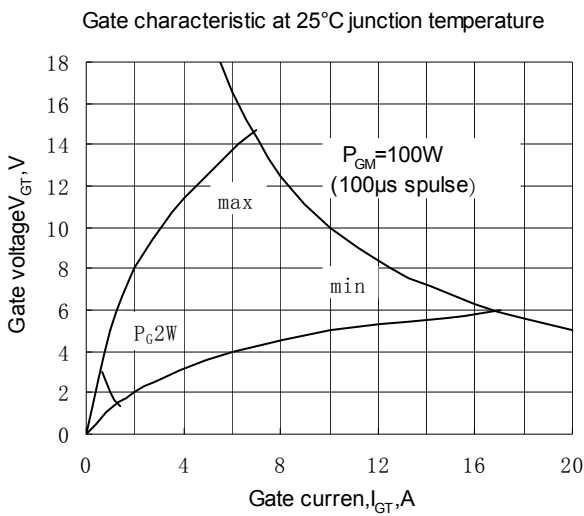


Fig.5

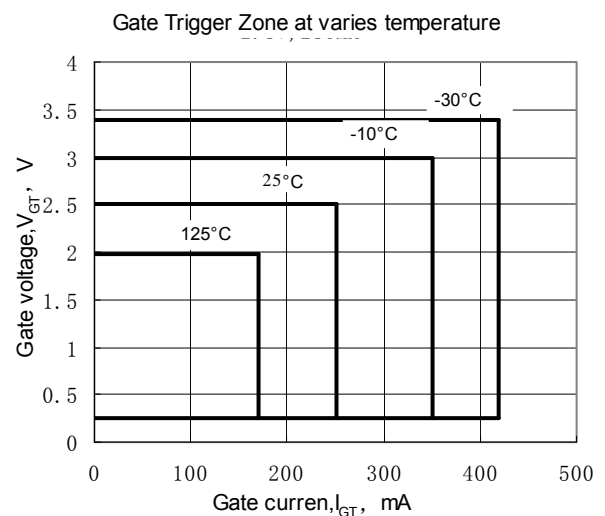


Fig.6



**Outline:**

图2-KT30aT

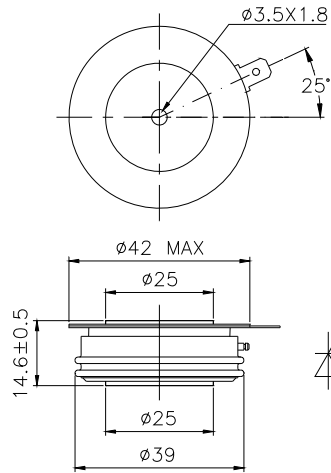
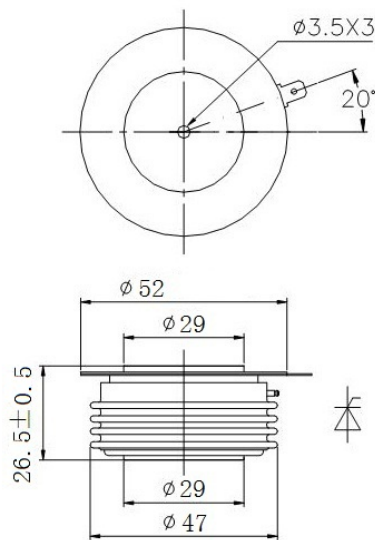


图3-KT36cT



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