



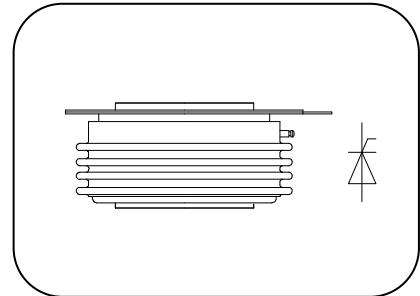
### Features

- 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<sub>T(AV)</sub>**      **3000 A**  
**V<sub>DRM/V<sub>RRM</sub></sub>**      **1900-3000V**  
**I<sub>TSM</sub>**      **44 kA**  
**I<sup>2</sup>t**      **9680 10<sup>3</sup>A<sup>2</sup>S**



SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T <sub>J</sub> (°C)	VALUE			UNIT	
				Min	Type	Max		
I <sub>T(AV)</sub>	Mean on-state current	180° half sine wave 50Hz Double side cooled,	T <sub>C</sub> =70°C	125		3000	3860	A
V <sub>DRM</sub> V <sub>RRM</sub>	Repetitive peak off-state voltage Repetitive peak reverse voltage	t <sub>p</sub> =10ms	125	1900		3000	V	
I <sub>DRM</sub> I <sub>RRM</sub>	Repetitive peak current	at V <sub>DRM</sub> at V <sub>RRM</sub>	125			250	mA	
I <sub>TSM</sub>	Surge on-state current	10ms half sine wave V <sub>R</sub> =0.6V <sub>RRM</sub>	125			44	kA	
I <sup>2</sup> t	I <sup>2</sup> t for fusing coordination					9680	A <sup>2</sup> s*10 <sup>3</sup>	
V <sub>TO</sub>	Threshold voltage		125			0.99	V	
r <sub>T</sub>	On-state slope resistance					0.11	mΩ	
V <sub>TM</sub>	Peak on-state voltage	I <sub>TM</sub> =6000A, F=70kN	25			2.10	V	
dV/dt	Critical rate of rise of off-state voltage	V <sub>DM</sub> =0.67V <sub>DRM</sub>	125			1000	V/μs	
di/dt	Critical rate of rise of on-state voltage current	V <sub>DM</sub> = 67%V <sub>DRM</sub> to 4000A, t=5s f=50Hz Gate pulse t <sub>r</sub> ≤ 0.5μs I <sub>GM</sub> =1.5A	125			250	A/μs	
Q <sub>rr</sub>	Recovery charge	I <sub>TM</sub> =2000A, t <sub>p</sub> =1000μs, di/dt=-20A/μs, V <sub>R</sub> =100V	125		3000		μC	
I <sub>GT</sub>	Gate trigger current	V <sub>A</sub> =12V, I <sub>A</sub> =1A	25	40		300	mA	
V <sub>GT</sub>	Gate trigger voltage			0.8		3.0	V	
I <sub>H</sub>	Holding current			20		300	mA	
V <sub>GD</sub>	Non-trigger gate voltage	V <sub>DM</sub> =67%V <sub>DRM</sub>	125			0.3	V	
R <sub>th(j-c)</sub>	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 70.0kN				0.007	°C /W	
R <sub>th(c-h)</sub>	Thermal resistance case to heatsink					0.002		
F <sub>m</sub>	Mounting force			63		84	kN	
T <sub>stg</sub>	Stored temperature			-40		140	°C	
W <sub>t</sub>	Weight				1460/1880		g	
Outline		KT95cT/KT95dT						

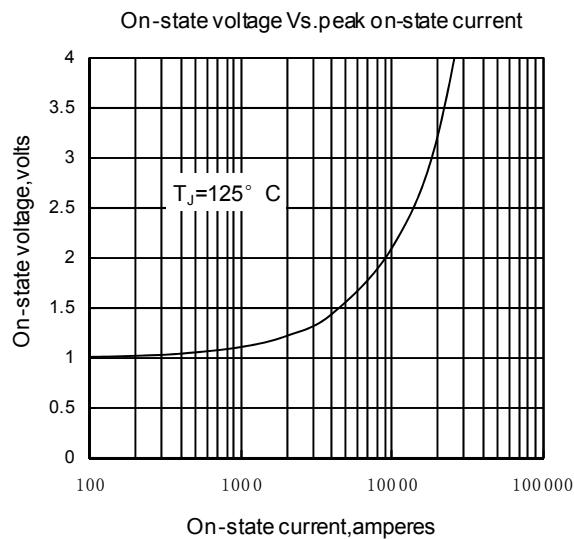


Fig1

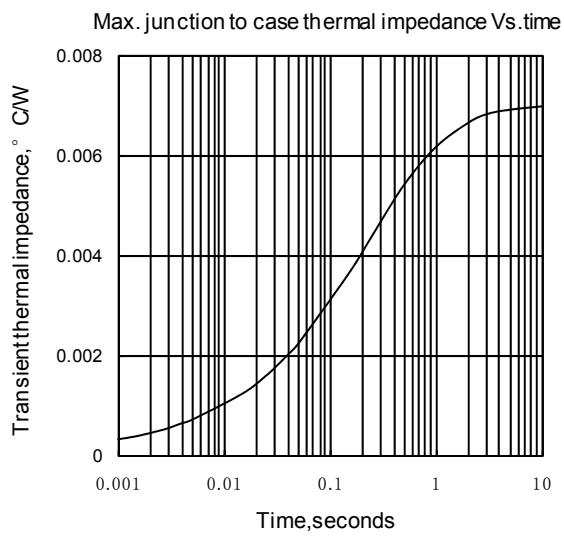


Fig2

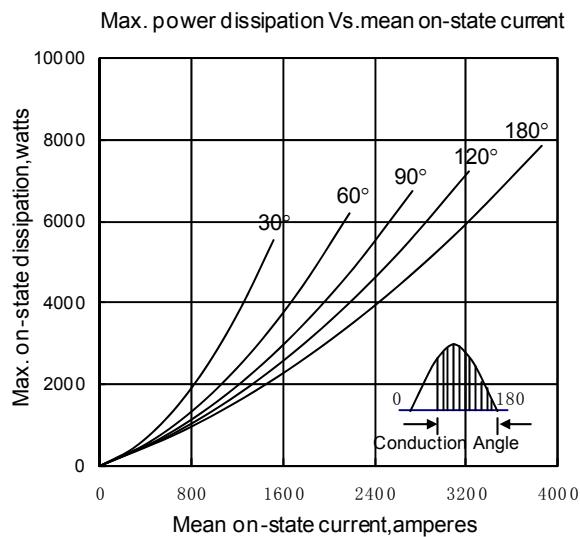


Fig3

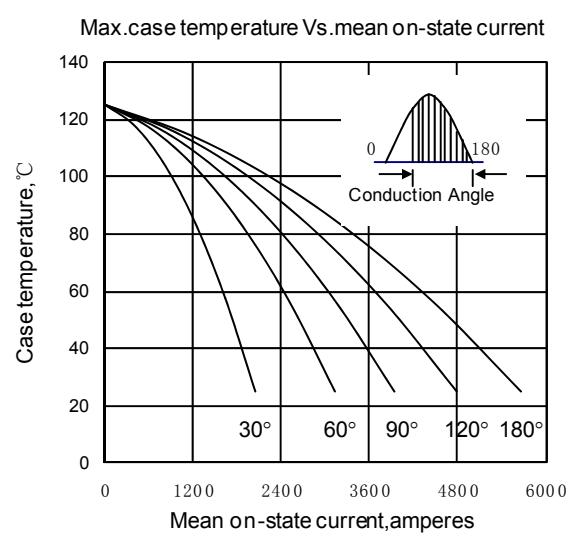


Fig4

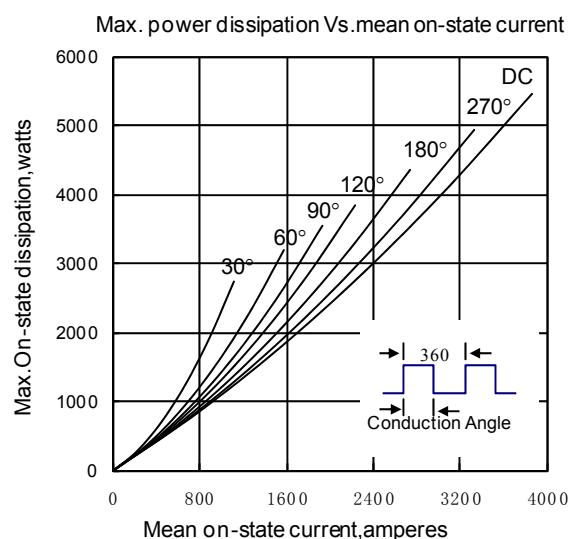


Fig5

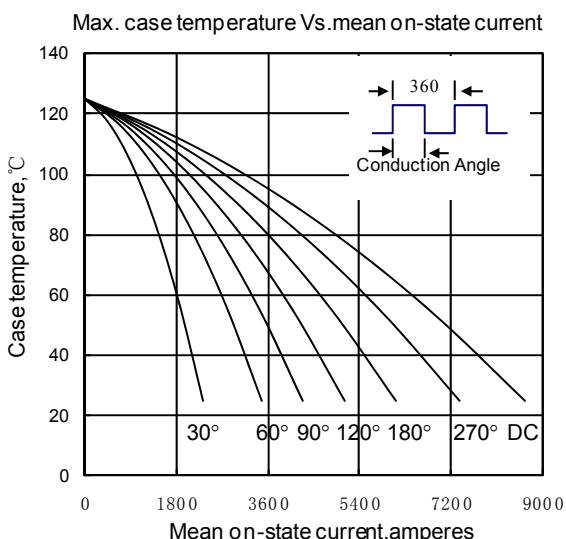


Fig6

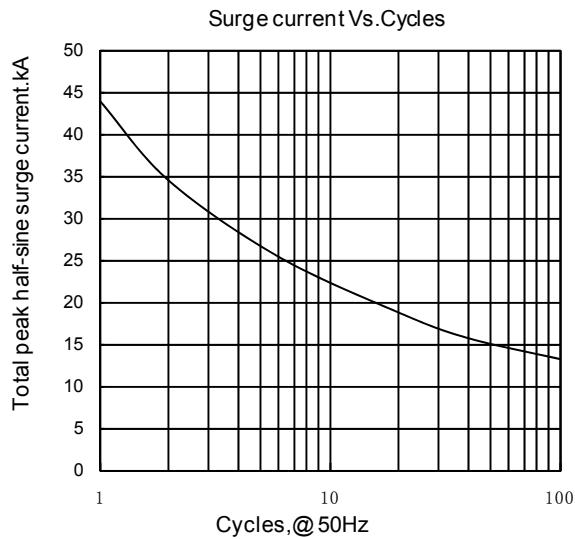


Fig 7

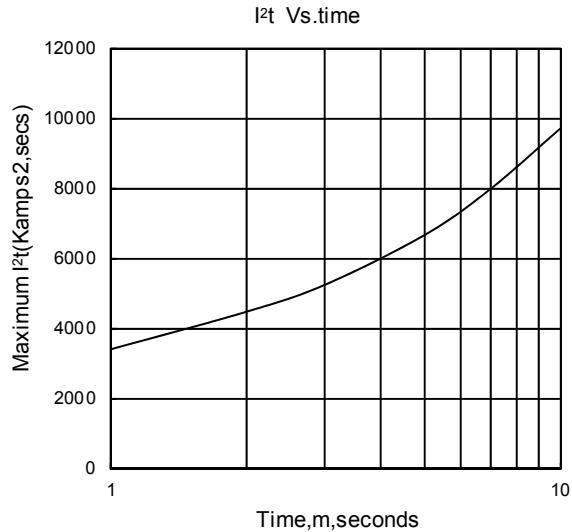


Fig 8

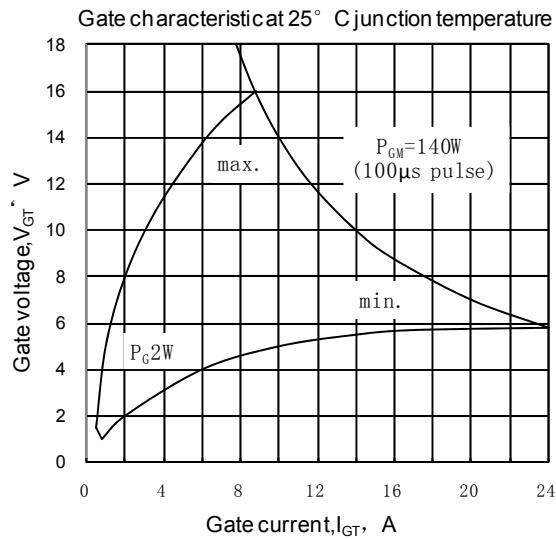


Fig 9

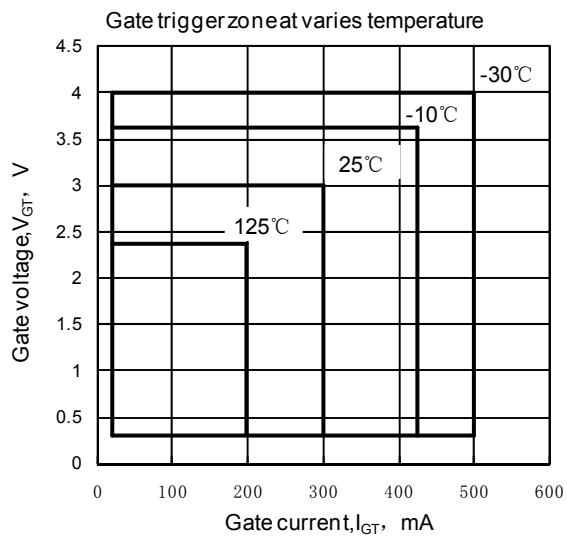


Fig 10

**Outline:** 圖19-KT95cT

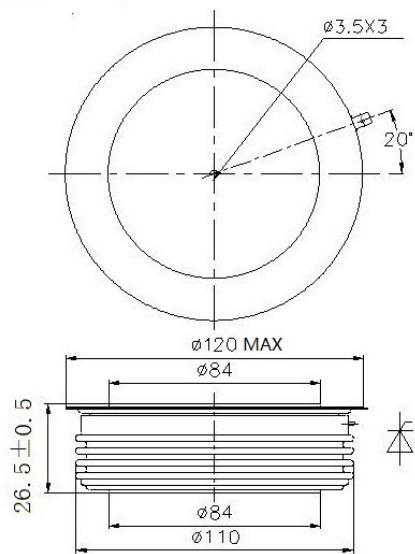


圖20-KT95dT

