



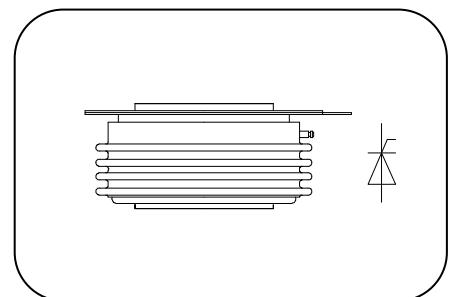
Features

- 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

$I_{T(AV)}$ **2500 A**
 V_{DRM}/V_{RRM} **1100-1800V**
 I_{TSM} **51 kA**
 I^2t **13005 $10^3 A^2S$**



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,	125		2500	3440	A
V_{DRM} V_{RRM}	Repetitive peak off-state voltage Repetitive peak reverse voltage	tp=10ms	125	1100		1800	V
I_{DRM} I_{RRM}	Repetitive peak current	at V_{DRM} at V_{RRM}	125			200	mA
I_{TSM}	Surge on-state current	10ms half sine wave $V_R=0.6V_{RRM}$	125			51	kA
I^2t	I^2t for fusing coordination					13005	$A^2s \times 10^3$
V_{TO}	Threshold voltage		125			0.84	V
r_T	On-state slope resistance					0.09	$m\Omega$
V_{TM}	Peak on-state voltage	$I_{TM}=5000A, F=40kN$	25			1.80	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	$V_{DM}=67\%V_{DRM}, ITM=(2\sim 3)ITAV, t=5s,$ Gate pulse $t_g \leq 0.5\mu s$ $I_{GM}=1.5A$ $f=50Hz$	125			250	A/ μ s
Q_{rr}	Recovery charge	$I_{TM}=2000A, tp=1000\mu s, di/dt=-20A/\mu s,$ $V_R=100V$	125		2500		μC
I_{GT}	Gate trigger current	$V_A=12V, I_A=1A$	25	40		300	mA
V_{GT}	Gate trigger voltage			0.8		3.0	V
I_H	Holding current			20		300	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 40.0kN				0.010	$^{\circ}C / W$
$R_{th(c-h)}$	Thermal resistance case to heatsink					0.003	
F_m	Mounting force			35		47	kN
T_{stg}	Stored temperature			-40		140	$^{\circ}C$
W_t	Weight				1100/1500		g
Outline		KT80cT/KT80dT					

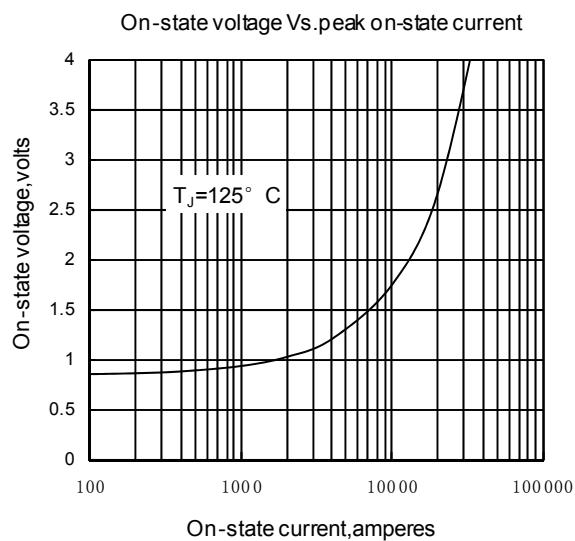


Fig1

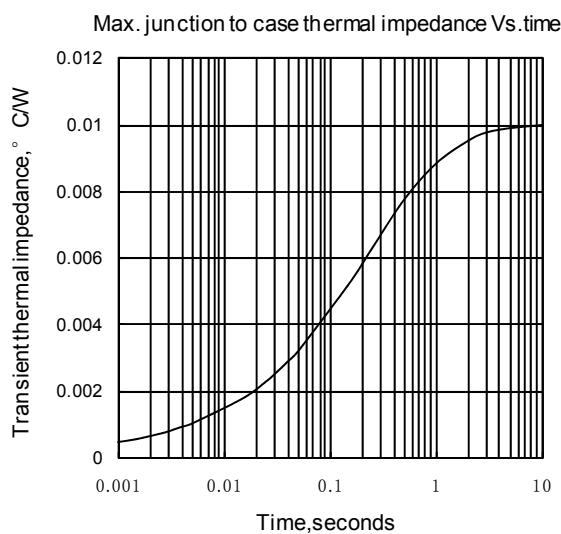


Fig2

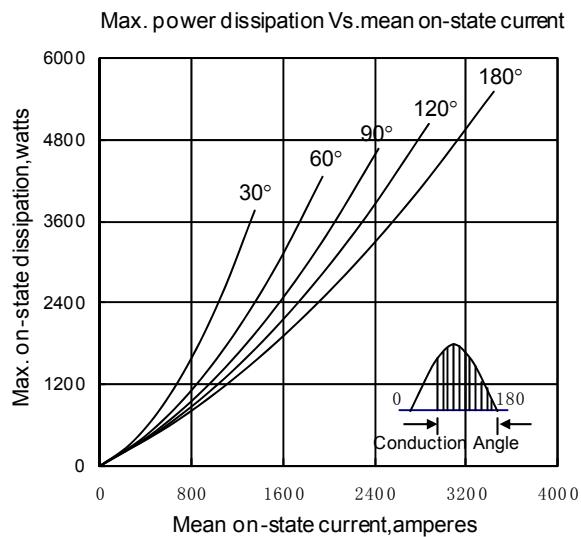


Fig3

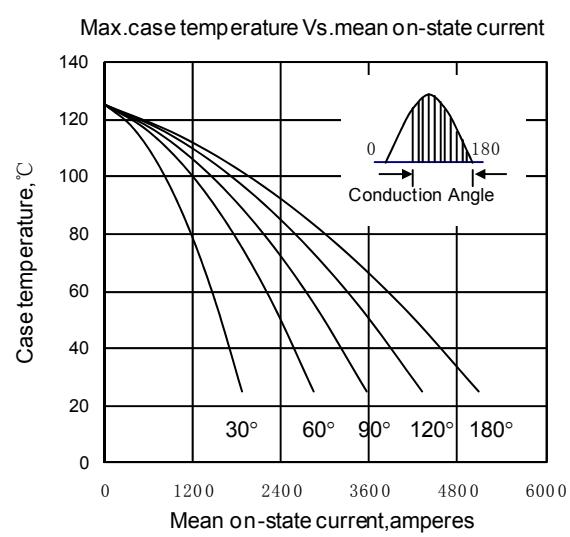


Fig4

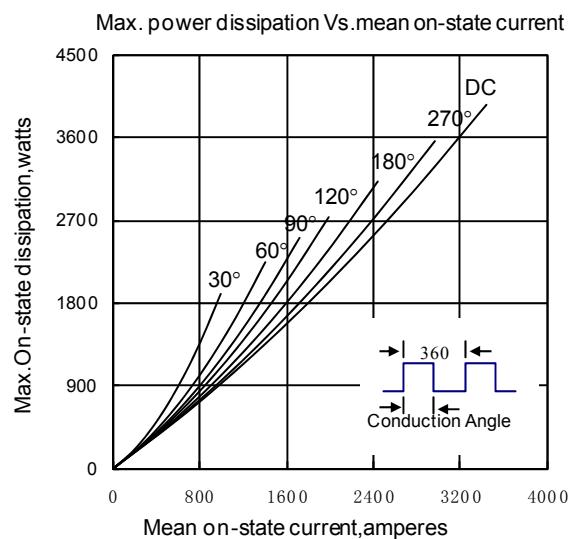


Fig5

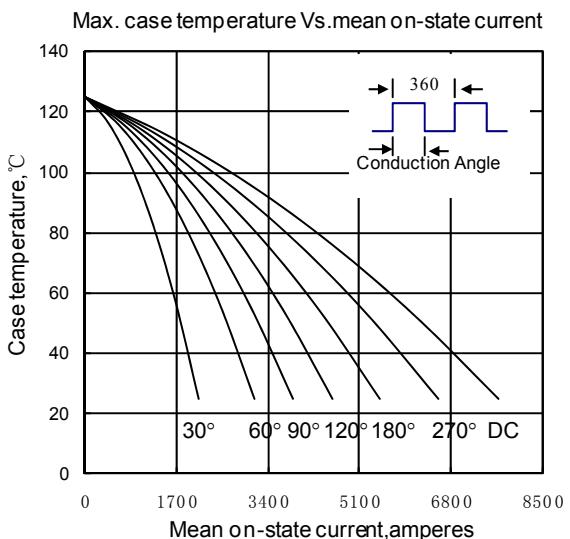


Fig6

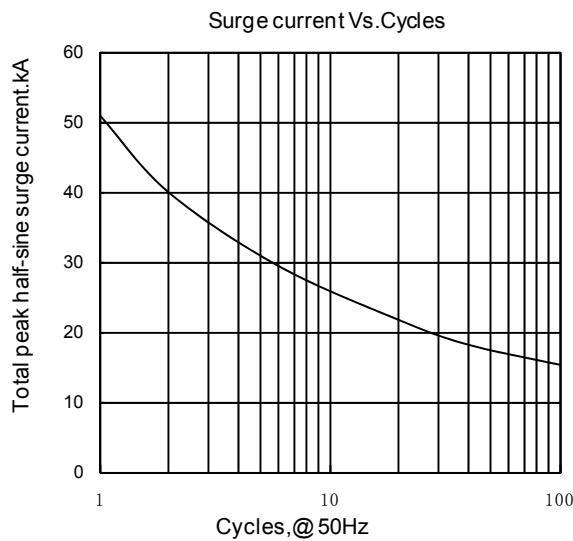


Fig7

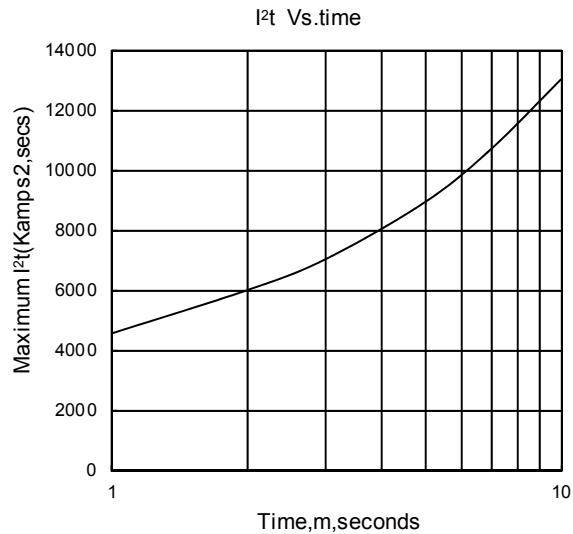


Fig8

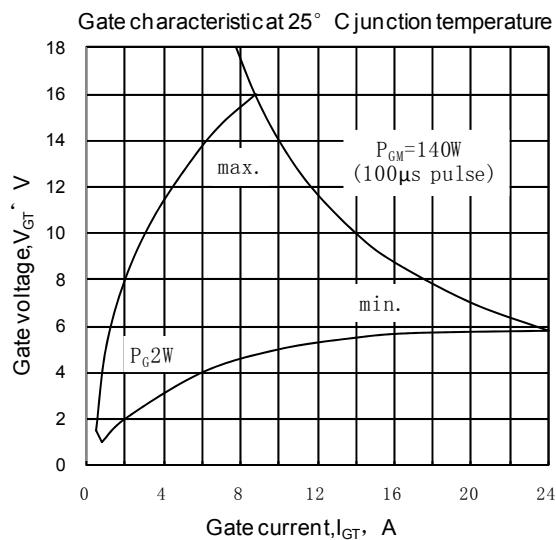


Fig9

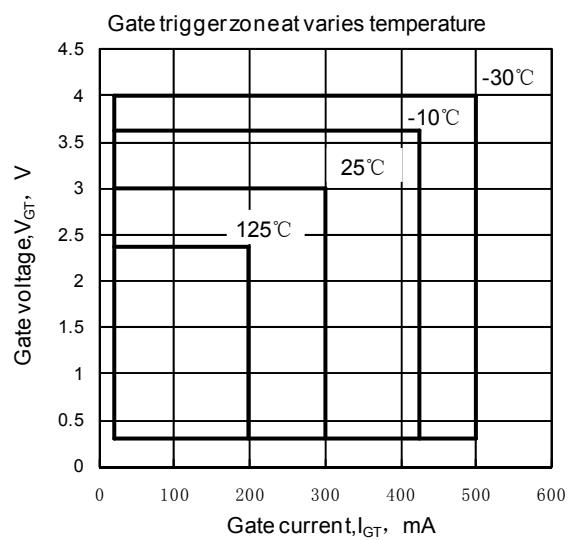


Fig10

Outline:

图17-KT80cT

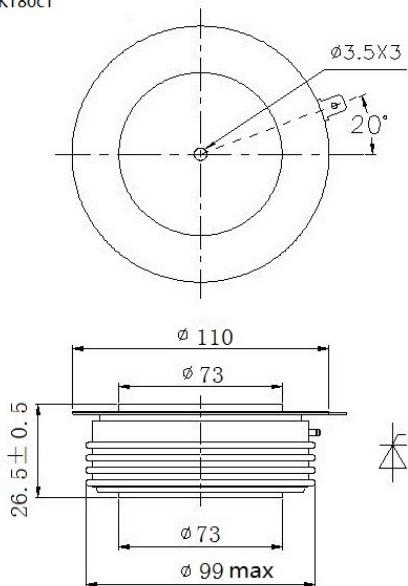


图18-KT80dT

