

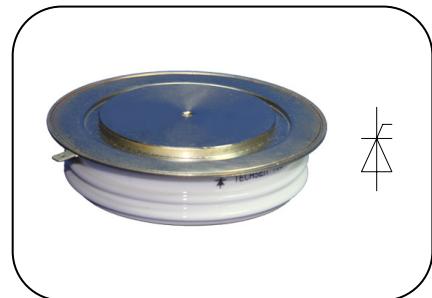
### Features

- 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

**$I_{T(AV)}$**       **1150 A**  
 **$V_{DRM}/V_{RRM}$**       **5600-6500V**  
 **$I_{TSM}$**       **18 kA**  
 **$I^2t$**       **1620  $10^3 A^2S$**



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,	$T_C=70^{\circ}C$	125		1150	A
$V_{DRM}$ $V_{RRM}$	Repetitive peak off-state voltage Repetitive peak reverse voltage	tp=10ms	125	5600		6500	V
$I_{DRM}$ $I_{RRM}$	Repetitive peak current	at $V_{DRM}$ at $V_{RRM}$	125			400	mA
$I_{TSM}$	Surge on-state current	10ms half sine wave $V_R=0.6V_{RRM}$	125			18	kA
$I^2t$	$I^2t$ for fusing coordination					1620	$A^2s \cdot 10^3$
$V_{TO}$	Threshold voltage		125			1.21	V
$r_T$	On-state slope resistance					0.70	$m\Omega$
$V_{TM}$	Peak on-state voltage	$I_{TM}=1500A, F=32kN$	25			2.35	V
$dv/dt$	Critical rate of rise of off-state voltage	$V_{DM}=0.67V_{DRM}$	125			2000	$V/\mu s$
$di/dt$	Critical rate of rise of on-state current	$V_{DM}=67\%V_{DRM}$ to 2000A, Gate pulse $tr \leq 0.5\mu s$ $I_{GM}=1.5A$	125			200	$A/\mu s$
$Q_{rr}$	Recovery charge	$I_{TM}=2000A, tp=2000\mu s, di/dt=-5A/\mu s,$ $V_R = 50V$	125		3000		$\mu C$
$I_{GT}$	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			25		200	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 32.0kN				0.013	$^{\circ}C/W$
$R_{th(j-h)}$	Thermal resistance case to heatsink					0.0035	$^{\circ}C/W$
$m$	Mounting force			27	32	34	kN
$T_{stg}$	Stored temperature			-40		140	$^{\circ}C$
$W_t$	Weight				820		g
Outline		KT60cT65					

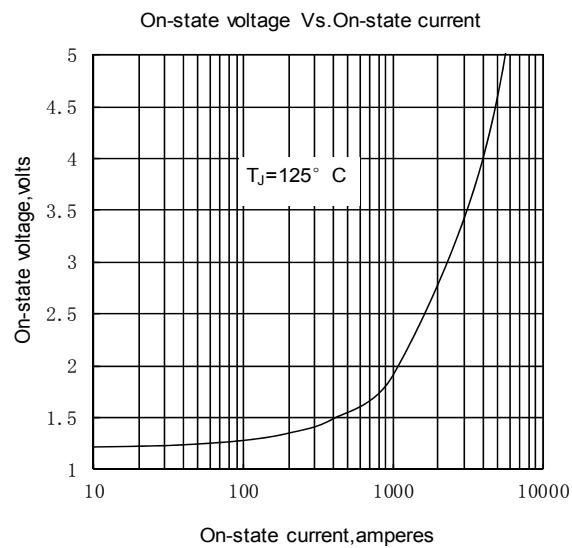


Fig.1

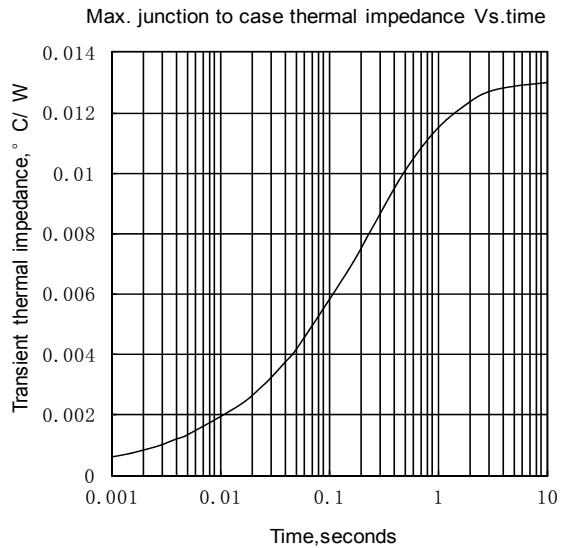


Fig.2

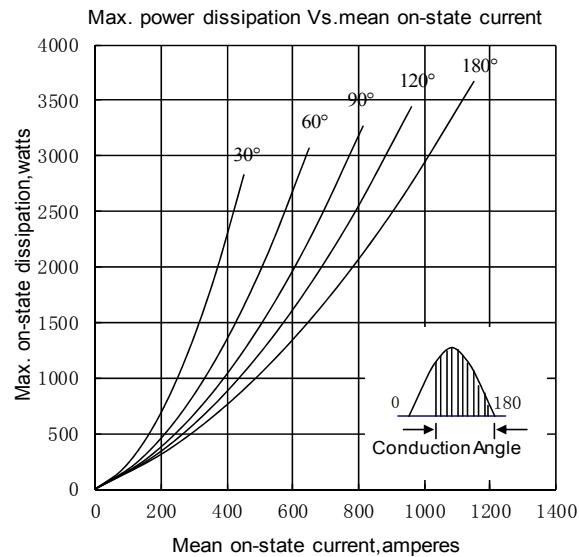


Fig.3

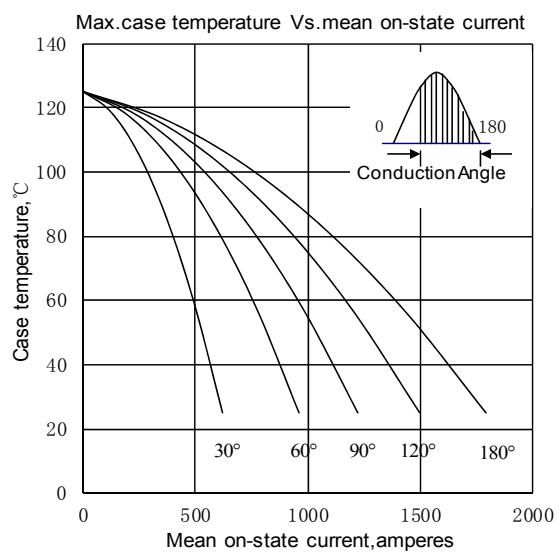


Fig.4

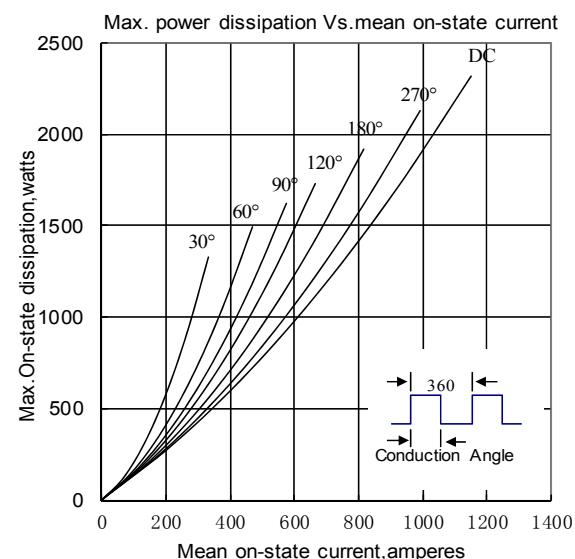


Fig.5

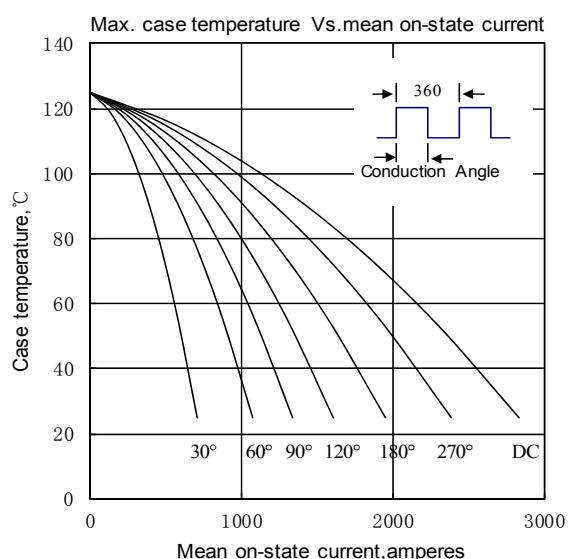


Fig.6

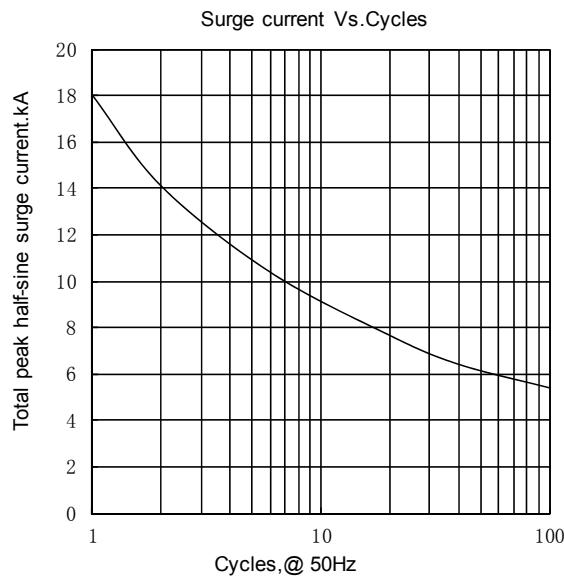


Fig.7

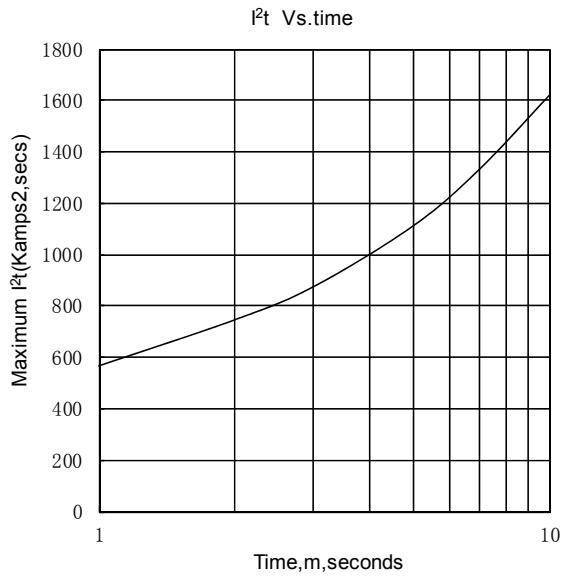


Fig.8

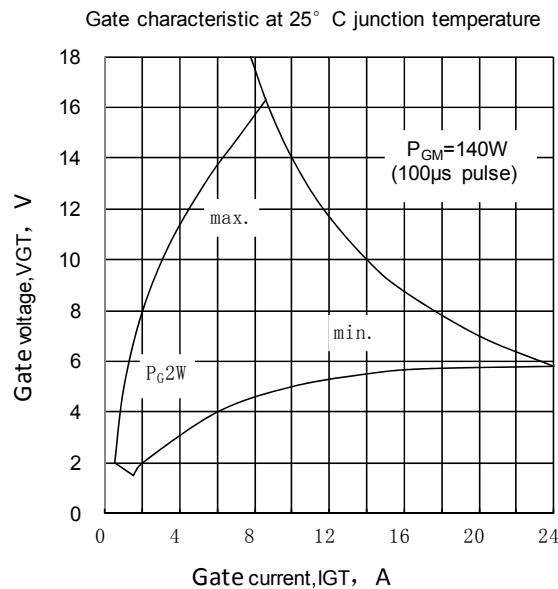


Fig.9

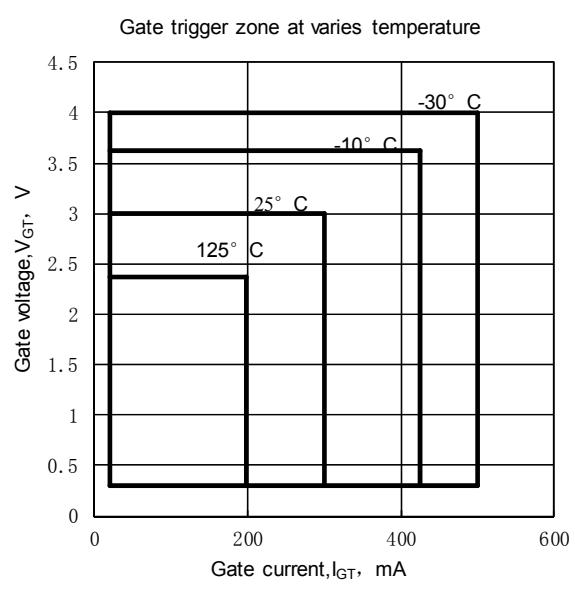


Fig.10

**Outline:**