

**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

$I_{T(AV)}$	<b>3080A</b>
$V_{DRM}/V_{RRM}$	<b>400~1000V</b>
$I_{TSM}$	<b>35 KA</b>
$I^2t$	<b>6125 <math>10^3 A^2S</math></b>



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			<b>3080</b>	<b>A</b>
						<b>2090</b>	
$V_{DRM}$ $V_{RRM}$	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	400		<b>1000</b>	<b>V</b>
$I_{DRM}$ $I_{RRM}$	Repetitive peak current	$V_{DM} = V_{DRM}$ $V_{RM} = V_{RRM}$	125			<b>120</b>	<b>mA</b>
$I_{TSM}$	Surge on-state current	10ms half sine wave $V_R=0.6V_{RRM}$	125			<b>35</b>	<b>KA</b>
$I^2t$	$I^2T$ for fusing coordination					<b>6125</b>	$A^2s * 10^3$
$V_{TO}$	Threshold voltage		125			<b>0.91</b>	<b>V</b>
$r_T$	On-state slop resistance					<b>0.11</b>	$m\Omega$
$V_{TM}$	Peak on-state voltage	$I_{TM}=4000A, F=32KN$	125			<b>1.35</b>	<b>V</b>
$dv/dt$	Critical rate of rise of off-state voltage	$V_{DM}=0.67V_{DRM}$	125			<b>1000</b>	$V/\mu s$
$di/dt$	Critical rate of rise of on-state current	$V_{DM}=67\%V_{DRM}$ to 3000A, Gate source 1.5A $t_r \leq 0.5\mu s$ Repetitive	125			<b>250</b>	$A/\mu s$
$I_{rm}$	Reverse recovery current	$I_{TM}=2000A, tp=1000\mu s, di/dt=-20A/\mu s, V_R=50V$	125			<b>180</b>	<b>A</b>
$t_{rr}$	Reverse recovery time					<b>22</b>	$\mu s$
$Q_{rr}$	Recovery charge					<b>2000</b>	$\mu C$
$I_{GT}$	Gate trigger current	$V_A=12V, I_A=1A$	25	40		<b>300</b>	<b>mA</b>
$V_{GT}$	Gate trigger voltage			0.8		<b>3.0</b>	<b>V</b>
$I_H$	Holding current			20		<b>300</b>	<b>mA</b>
$V_{GD}$	Non-trigger gate voltage	$V_{DM}=67\%V_{DRM}$	125	0.3			<b>V</b>
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 32KN				<b>0.013</b>	$^{\circ}C / W$
$R_{th(c-h)}$	Thermal resistance case to heatsink					<b>0.0035</b>	
$F_m$	Mounting force			27		<b>34</b>	<b>KN</b>
$T_{stg}$	Stored temperature			-40		<b>140</b>	<b>°C</b>
$W_t$	Weight					<b>650</b>	<b>g</b>
Outline	<b>KT60cT65</b>						

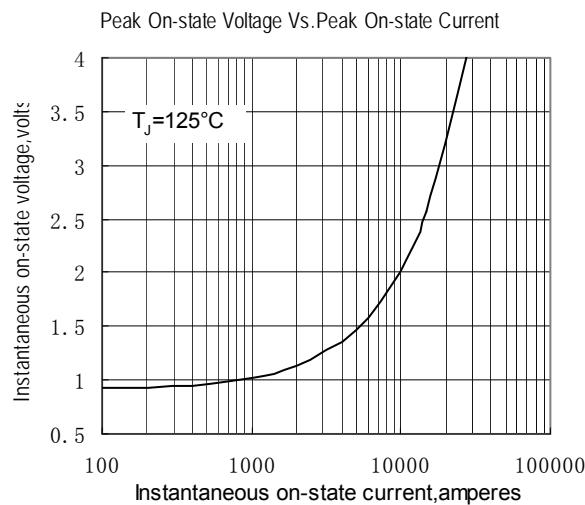


Fig.1

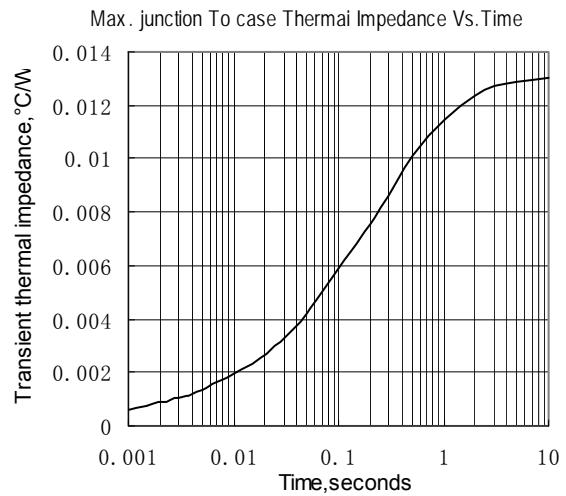


Fig.2

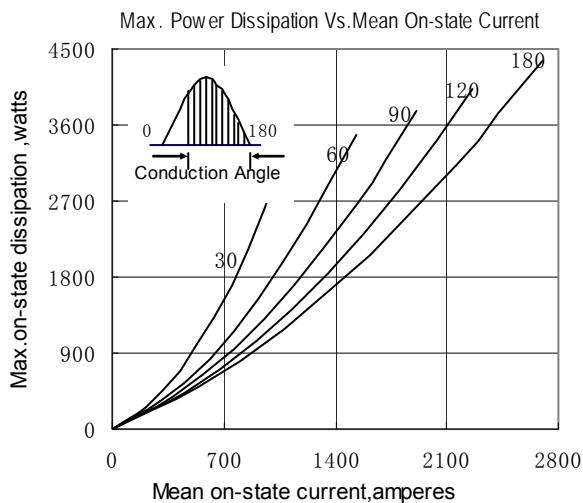


Fig.3

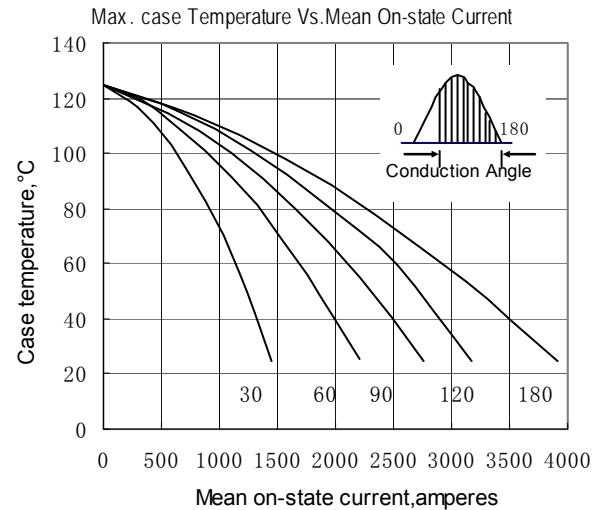


Fig.4

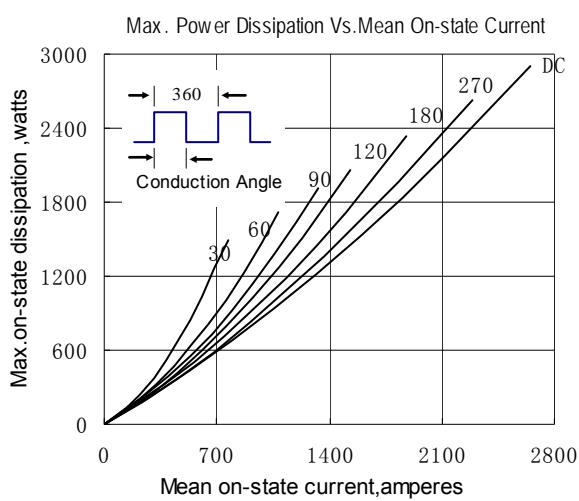


Fig.5

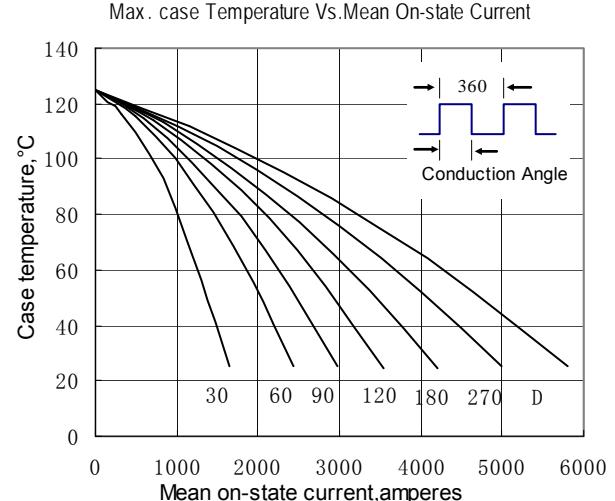


Fig.6

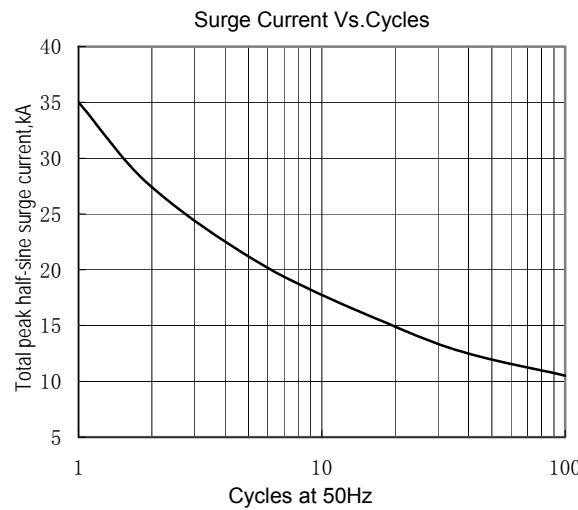


Fig.7

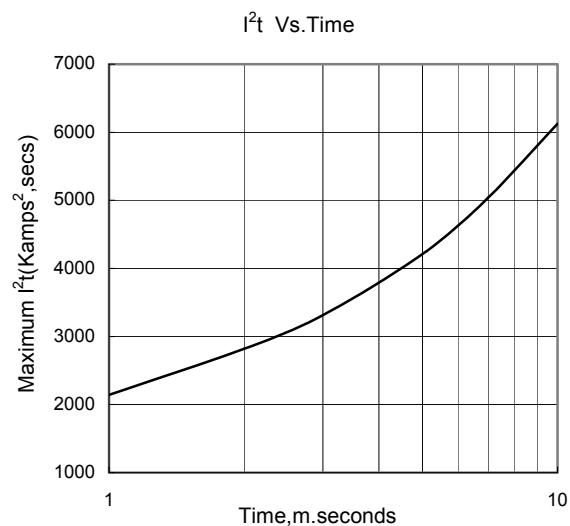


Fig.8

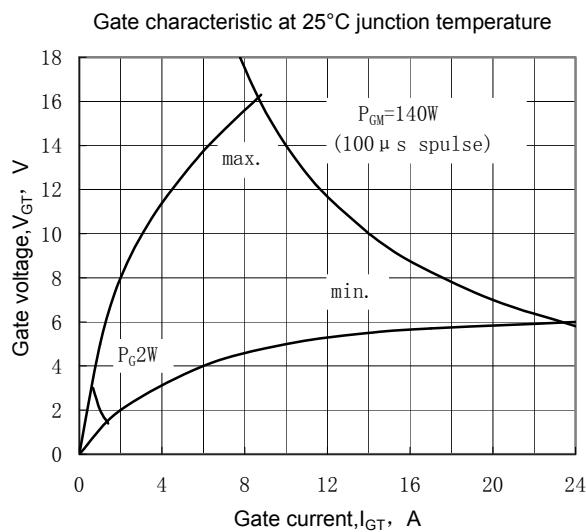


Fig.9

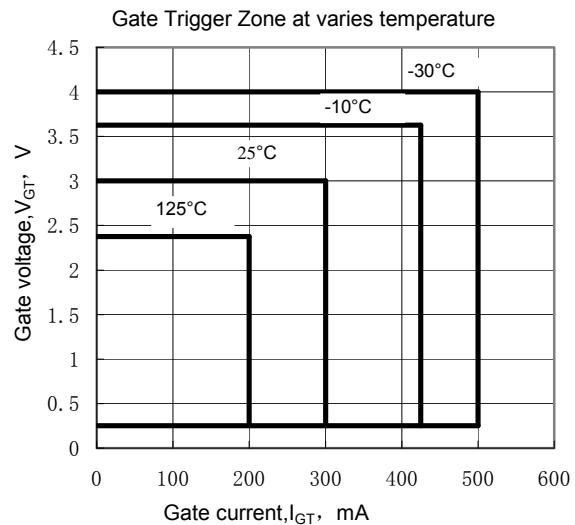


Fig.10

**Outline:**