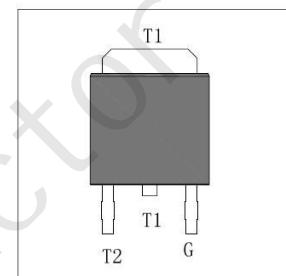


**APPLICATIONS**

Mesa glass passivation technology; Multilayer metal electrode on the back; Have high blocking voltage and high temperature stability  
 cleaner、Electric tools such as motor speed controller;  
 Solid state relay;  
 Heating controller (temperature);  
 Other phase control circuit

**ABSOLUTE MAXIMUM RATINGS( $T_a=25^\circ\text{C}$ )**

SYMBOL	PARAMETER	MIN	UNIT
$V_{DRM}$	Repetitive peak off-state voltage	800	V
$V_{RRM}$	Repetitive peak reverse voltage	800	V
$I_{T(AV)}$	On-state current $T_c=80^\circ\text{C}$	7.5	A
$I_{ISM}$	Surge non-repetitive on-state current $T_p=10\text{ms}$	80	A
$P_{G(AV)}$	Average gate power	1	W
$di/dt$	Repetitive rate of rise of on-state current after triggering $T_j=125^\circ\text{C}$	50	A/us
$I^2t$	$I^2t$ for fusing $t = 10 \text{ ms}$	64	A <sup>2</sup> S
$I_{GM}$	Peak gate current $t_p=20\text{us}, T_j=125^\circ\text{C}$	4	A
$T_j$	Operating Junction temperature	-40 ~+125	°C
$T_{stg}$	Storage temperature	-40 ~+150	°C


**ELECTRICAL CHARACTERISTICS ( $T_C=25^\circ\text{C}$  unless otherwise specified)**

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$I_{RRM}$	Repetitive peak reverse current	$V_{RR}=500\text{V}, T_j=125^\circ\text{C}$			1	mA
		$V_{RR}=500\text{V}, T_j=25^\circ\text{C}$			5	uA
$I_{DRM}$	Repetitive peak off-state current	$V_{DR}=500\text{V}, T_j=125^\circ\text{C}$			1	mA
		$V_{DR}=500\text{V}, T_j=25^\circ\text{C}$			5	uA
$V_{TM}$	On-state voltage	$I_{TM}=$			1.5	V
$I_G$	Gate-trigger current	$V_D=12\text{V}; R_L=100\Omega$			6	mA
$V_{GT}$	Gate-trigger voltage	$V_D=12\text{V}; R_L=100\Omega$			1.5	V
$I_H$	Holding current	$I_T=0.5\text{A}$			30	mA
$I_L$	Latching current	$I_G=1.2I_{GT}$	60	100		mA
$dv/dt$	Critical rate of rise of off-state voltage	$V_D=2/3V_{DRM} T_j=125^\circ\text{C}$	200	1000		V/us
$R_{th(j-c)}$	Thermal resistance junction to mounting base	in free air		1.75		°C/W

## 外形尺寸图 / Package Dimensions

