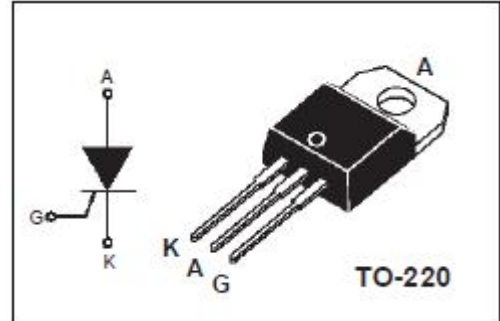


**APPLICATIONS**

- With TO-220 package
- It is suitable to fit all modes of control found in applications such as overvoltage crowbar protection, motor control circuits in power tools and kitchen aids, in-rush current limiting circuits, capacitive discharge ignition, voltage regulation circuits etc.
- Minimum Lot-to-Lot variations for robust device performance and reliable operation


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

SYMBOL	PARAMETER	MIN	UNIT	
$V_{\text{DRM}}$	Repetitive peak off-state voltage	600	V	
$V_{\text{RRM}}$	Repetitive peak reverse voltage	600	V	
$I_{\text{T(RMS)}}$	RMS on-state current	25	A	
$I_{\text{T (AV)}}$	Average on-state current	16	A	
$I_{\text{TSM}}$	Surge non-repetitive on-state current	50HZ	300	A
		60HZ	350	
$T_{\text{j}}$	Operating junction temperature	-40~125	$^{\circ}\text{C}$	
$T_{\text{stg}}$	Storage temperature	-40~125	$^{\circ}\text{C}$	

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

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
$I_{RRM}$	Repetitive peak reverse current	$V_R=V_{RRM}$ Rated; $V_D=V_{DRM}$ Rated;	$T_c=25^\circ\text{C}$		0.01	mA
$I_{DRM}$	Repetitive peak off-state current		$T_c=100^\circ\text{C}$ $T_c=125^\circ\text{C}$		1 2	
$V_{TM}$	On-state voltage				1.6	V
$I_{GT}$	Gate-trigger current	$V_D = 12\text{V}; RL=60 \Omega$ ;			35	mA
$V_{GT}$	Gate-trigger voltage	$V_D = 12\text{V}; RL=60 \Omega$ ;			1.5	V

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