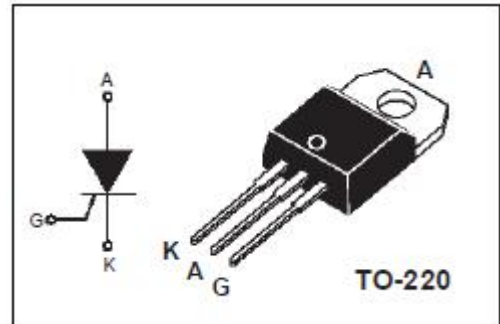


APPLICATIONS

- With TO-220ins 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_{DRM}	Repetitive peak off-state voltage	600	V	
V_{RRM}	Repetitive peak reverse voltage	600	V	
$I_{\text{T(RMS)}}$	RMS on-state current	20	A	
$I_{\text{T (AV)}}$	Average on-state current	12.8	A	
I_{TSM}	Surge non-repetitive on-state current	50HZ	255	A
		60HZ	300	
T_j	Operating junction temperature	-40~125	$^{\circ}\text{C}$	
T_{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		$T_c=100^\circ\text{C}$ $T_c=125^\circ\text{C}$		0.5 1	
V_{TM}	On-state voltage				1.6	V
I_{GT}	Gate-trigger current	$V_D = 12\text{V}; R_L = 60 \Omega$;			30	mA
V_{GT}	Gate-trigger voltage	$V_D = 12\text{V}; R_L = 60 \Omega$;			1.5	V

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