

## TRIAC

## GENERAL DESCRIPTION

Glass passivated triacs in a plastic envelope , intended for use in applications requiring high bidirectional transient andblocking voltage capability and high thermal cycling performance.

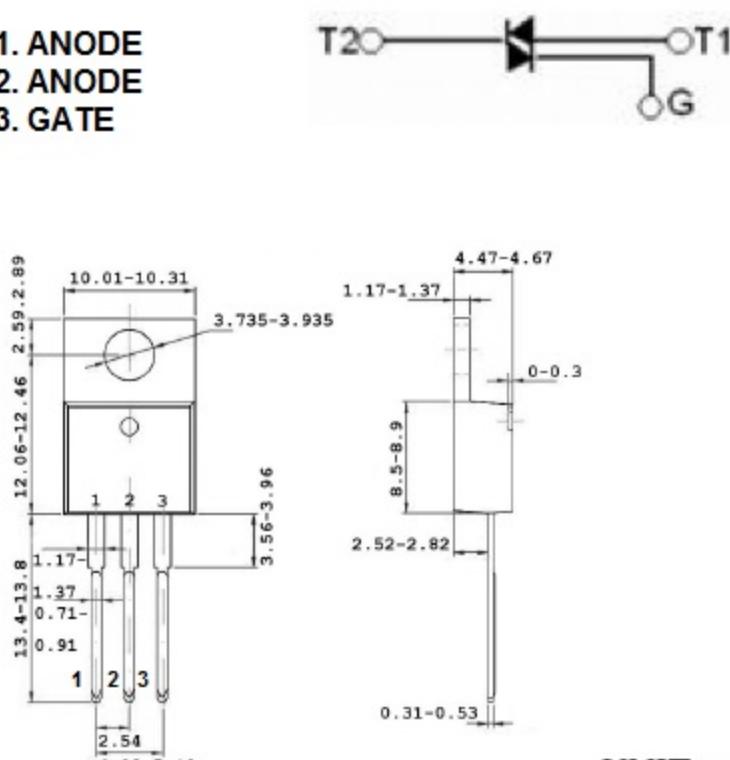
Typical applications include motor control, industrial and domestic lighting , heating and static switching.

## MAIN FEATURES

Symbol	value	unit
$I_{T(RMS)}$	6	A
$V_{DRM}/V_{RRM}$	600	V
$I_{TSM}$	25	A

## TO-220

1. ANODE
2. ANODE
3. GATE



UNIT:mm

ABSOLUTE MAXIMUM RATINGS ( $T_a=25^\circ C$  unless otherwise noted)

symbol	parameter	value	unit
$I_{T(RMS)}$	RMS on-state current (full sine wave)	D <sup>2</sup> PAK/TO-220	$T_c=107^\circ C$
$I_{TSM}$	Non repetitive surge peak on-state current (full sine wave, $T_j =25^\circ C$ )	t=20ms	25
		t=16.7ms	27
$I_{GM}$	Peak gate current	2	A
$P_{G(AV)}$	Average gate power dissipation	$T_j=125^\circ C$	0.5
$T_{stg}$	Storage junction temperature range	-40 to +150	
$T_j$	Operating junction temperature range	-40 to +125	$^\circ C$

ELECTRICAL CHARACTERISTICS ( $T_a=25^\circ C$  unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Max	Unit
Rated repetitive peak off-state/reverse voltage	$V_{DRM}, V_{RRM}$	$I_D=10\mu A$	600		V
Rated repetitive peak off-state current	$I_{DRM}, I_{RRM}$	$V_D=620V$		10	$\mu A$
On-state voltage	$V_{TM}$	$I_T=5A$		1.7	V
Gate trigger current	I	$I_{GT}$	$T_2(+), G(+)$	$V_D=12V$ $R_L=100\Omega$	10 mA
	II		$T_2(+), G(-)$		10 mA
	III		$T_2(-), G(-)$		10 mA
	IV		$T_2(-), G(+)$		- mA
Gate trigger voltage	I	$V_{GT}$	$T_2(+), G(+)$	$V_D=12V$ $R_L=100\Omega$	1.45 V
	II		$T_2(+), G(-)$		1.45 V
	III		$T_2(-), G(-)$		1.45 V
	IV		$T_2(-), G(+)$		- V
Holding current	$I_H$	$I_T=100mA$ $I_G=20mA$		20	mA