

MAIN FEATURES

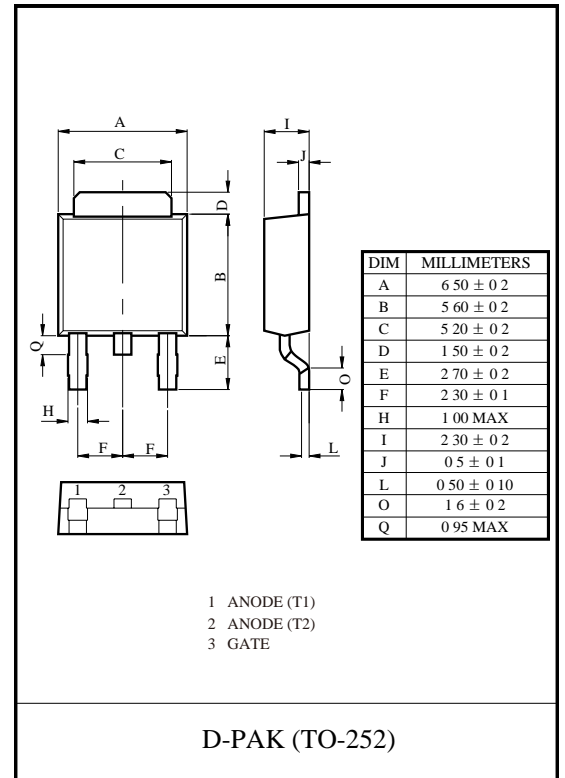
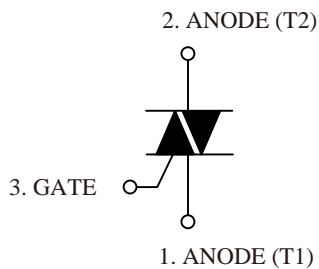
Symbol	value	unit
$I_{T(RMS)}$	4	A
V_{DRM} / V_{RRM}	600	V
I_{TSM}	25	A

FEATURES

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

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

SYMBOL



MAXIMUM RATINGS ($T_a=25^\circ\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	RATINGS	UNIT	
Repetitive Peak Off-State Voltages	V_{DRM}	600 (Note 2)	V	
RMS On-State Current (full sine wave, $T_{MB} \leq 107^\circ\text{C}$)	$I_{T(RMS)}$	4	A	
Non-Repetitive Peak On-State Current (Full sine wave; $T_J=25^\circ\text{C}$ prior to surge)	$t=20\text{ms}$	25	A	
	$t=16.7\text{ms}$	27	A	
I^2t for fusing ($t=10\text{ms}$)	I^2t	3.1	A^2s	
Repetitive Rate of Rise of On-State Current After Triggering	$I_{TM}=6\text{A},$ $I_G=0.2\text{A},$ $di_G/dt=0.2\text{A}/\mu\text{s}$	T2+ G+	50	$\text{A}/\mu\text{s}$
		T2+ G-	50	$\text{A}/\mu\text{s}$
		T2- G-	50	$\text{A}/\mu\text{s}$
		T2- G+	10	$\text{A}/\mu\text{s}$
Peak Gate Voltage	V_{GM}	5	V	
Peak Gate Current	I_{GM}	2	A	
Peak Gate Power	P_{GM}	5	W	
Average Gate Power (over any 20 ms period)	$P_{G(AV)}$	0.5	W	
Junction Temperature	T_J	150	$^\circ\text{C}$	
Storage Temperature	T_{STG}	-40 ~ +150	$^\circ\text{C}$	

Note: 1. Absolute maximum ratings are those values beyond which the device could be permanently damaged.

Absolute maximum ratings are stress ratings only and functional device operation is not implied.

2. Although not recommended, off-state voltages up to 800V may be applied without damage, but the triac may switch to the on-state. The rate of rise of current should not exceed $3\text{A}/\mu\text{s}$.



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

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

