

isc Triacs

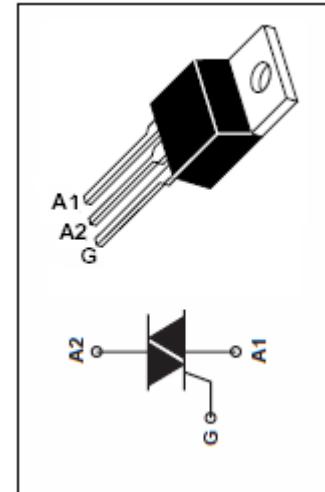
TIC225M

FEATURES

- With TO-220 package
- Sensitive Gate Triacs
- Glass Passivated
- Max I_{GT} of 5 mA (Quadrants 1)

ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	MIN	UNIT
V_{DRM}	Repetitive peak off-state voltage	600	V
V_{RRM}	Repetitive peak reverse voltage	600	V
$I_{T(RMS)}$	RMS on-state current (full sine wave) $T_C=70^\circ\text{C}$	8	A
I_{TSM}	Non-repetitive peak on-state current	70	A
T_j	Operating junction temperature	110	°C
T_{stg}	Storage temperature	-45~150	°C
$R_{th(j-c)}$	Thermal resistance, junction to case	2.5	°C/W
$R_{th(j-a)}$	Thermal resistance, junction to ambient	62.5	°C/W

**ELECTRICAL CHARACTERISTICS (T_c=25°C unless otherwise specified)**

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
I_{DRM}	Repetitive peak off-state current	$V_D=V_{DRM}$, $T_C=110^\circ\text{C}$	2.0	mA
I_{GT}	Gate trigger current	$V_{supply} = 12 \text{ V}\dagger$; $R_L = 10 \Omega$; $t_{p(g)} > 20 \mu\text{s}$	5	mA
			20	
			10	
			30	
I_H	Holding current	$V_{supply} = 12 \text{ V}\dagger$, $I_G = 0$ initial $I_{TM} = 100 \text{ mA}$	20	mA
V_{GT}	Gate trigger voltage all quadrant	$V_{supply} = 12 \text{ V}\dagger$; $R_L = 10 \Omega$; $t_{p(g)} > 20 \mu\text{s}$	2	V
V_{TM}	On-state voltage	$I_T = 12 \text{ A}$; $I_G = 50 \text{ mA}$	2.1	V