

Triacs

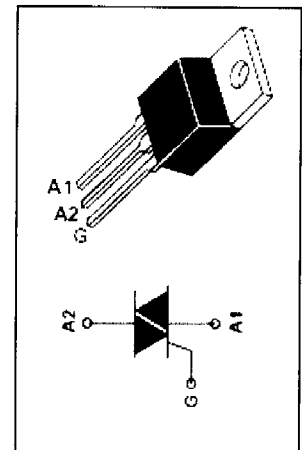
TIC206M

FEATURES

- With TO-220 package
- Sensitive Gate Triacs
- Glass Passivated
- Max I_{GT} of 5 mA (Quadrants 1~3)

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
$I_{T(RMS)}$	RMS on-state current (full sine wave) $T_C=85^\circ\text{C}$	4	A
I_{TSM}	Non-repetitive peak on-state current	25	A
T_j	Operating junction temperature	110	$^\circ\text{C}$
T_{stg}	Storage temperature	-45~150	$^\circ\text{C}$
$R_{th(j-c)}$	Thermal resistance, junction to case	7.8	$^\circ\text{C/W}$
$R_{th(j-a)}$	Thermal resistance, junction to ambient	62.5	$^\circ\text{C/W}$



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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
I_{DRM}	Repetitive peak off-state current	$V_D=V_{DRM}$, $T_C=110^\circ\text{C}$	1.0	mA
I_{GT}	Gate trigger current	I	5	mA
		II	5	
		III	5	
		IV	10	
I_H	Holding current	$V_{supply} = 12\text{ V}$; $I_G = 0$ initial $I_{TM} = 100\text{ mA}$	30	mA
V_{GT}	Gate trigger voltage all quadrant	$V_{supply} = 12\text{ V}$; $R_L = 10\ \Omega$; $t_{p(g)} > 20\ \mu\text{ s}$	2.0	V
V_{TM}	On-state voltage	$I_T = 8.4\text{ A}$; $I_G = 50\text{ mA}$	1.7	V

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