

isc Triacs

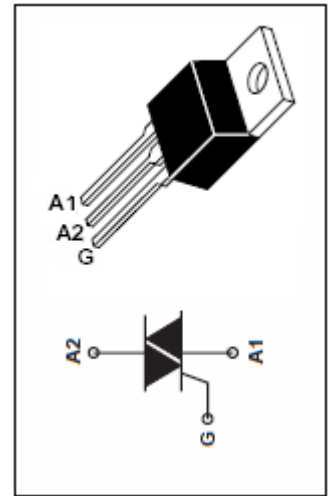
TIC206M

FEATURES

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

ABSOLUTE MAXIMUM RATINGS( $T_a=25^{\circ}C$ )

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



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

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