

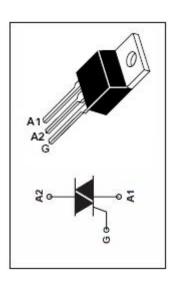
isc Triacs TIC206M

## **FEATURES**

- With TO-220 package
- · Sensitive Gate Triacs
- Glass Passivated
- Max I<sub>GT</sub> of 5 mA (Quadrants 1~3)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

## ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	MIN	UNIT
$V_{DRM}$	Repetitive peak off-state voltage	600	V
V <sub>RRM</sub>	Repetitive peak reverse voltage	600	V
I <sub>T(RMS)</sub>	RMS on-state current (full sine wave)T <sub>C</sub> =85°C	4	Α
I <sub>TSM</sub>	Non-repetitive peak on-state current	25	Α
T <sub>j</sub>	Operating junction temperature	110	$^{\circ}$
T <sub>stg</sub>	Storage temperature	-45~150	$^{\circ}$
R <sub>th(j-c)</sub>	Thermal resistance, junction to case	7.8	°C/W
R <sub>th(j-a)</sub>	Thermal resistance, junction to ambient	62.5	°C/W



## **ELECTRICAL CHARACTERISTICS (Tc=25℃ unless otherwise specified)**

SYMBOL	PARAMETER		CONDITIONS	MAX	UNIT
I <sub>DRM</sub>	Repetitive peak off-state current		V <sub>D</sub> =V <sub>DRM</sub> , T <sub>C</sub> =110 °C	1.0	mA
l <sub>GT</sub>	Gate trigger current	I	$V_{\text{supply}}$ = 12 V†; $R_L$ = 10 $\Omega$ ; $t_{p(g)}$ >20 $\mu$ s	5	- mA
		II		5	
		III		5	
		IV		10	
I <sub>H</sub>	Holding current		$V_{\text{supply}}$ = 12 V†, $I_{\text{G}}$ = 0 initial $I_{\text{TM}}$ = 100mA	30	mA
V <sub>GT</sub>	Gate trigger voltage all quadrant		$V_{\text{supply}}$ = 12 V†; R <sub>L</sub> = 10 $\Omega$ ; $t_{p(g)}$ >20 $\mu$ s	2.0	V
$V_{TM}$	On-state voltage		I <sub>T</sub> = 8.4A; I <sub>G</sub> = 50mA	1.7	V



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