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Triacs

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# **TIC226N**

### **FEATURES**

- With TO-220 package
- Sensitive Gate Triacs
- Glass Passivated
- Max I<sub>GT</sub> of 50 mA (Quadrants 1~3)

#### UNIT SYMBOL PARAMETER MIN VDRM Repetitive peak off-state voltage 800 V $V_{\mathsf{RRM}}$ Repetitive peak reverse voltage 800 V IT(RMS) RMS on-state current (full sine wave)Tc=85°C 8 А I<sub>TSM</sub> Non-repetitive peak on-state current 70 А Tj Operating junction temperature 110 °C T<sub>stg</sub> Storage temperature -45~150 °C R<sub>th(j-c)</sub> Thermal resistance, junction to case 1.8 °CNV R<sub>th(j-a)</sub> Thermal resistance, junction to ambient 62.5 СW

## ABSOLUTE MAXIMUM RATINGS(Ta=25°C)



## ELECTRICAL CHARACTERISTICS (Tc=25°C unless otherwise specified)

SYMBOL	PARAMETER Repetitive peak off-state current		CONDITIONS	TYP,	MAX	UNIT
I <sub>DRM</sub>			V <sub>D</sub> =V <sub>DRM</sub> , T <sub>C</sub> =110 ℃		2.0	mA
I <sub>GT</sub>	Gate trigger current	Ι	- V <sub>supply</sub> = 12 V†; R <sub>L</sub> = 10 Ω; t <sub>p(g)</sub> >20 μ s	2	50	mA
		II		12	50	
		III		9	50	
		IV		20		
Iн	Holding current		$V_{supply} = 12 V_{\uparrow}, I_G = 0$ initial $I_{TM} = 100 \text{mA}$		30	mA
$V_{GT}$	Gate trigger voltageall quadrant		$V_{supply}$ = 12 V†; R <sub>L</sub> = 10 $\Omega$ ; t <sub>p(g)</sub> >20 $\mu$ s		2	V
V <sub>TM</sub>	On-state voltage		I <sub>T</sub> = 12A; I <sub>G</sub> = 50mA		2.1	v



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# **Quality Semi-Conductors**