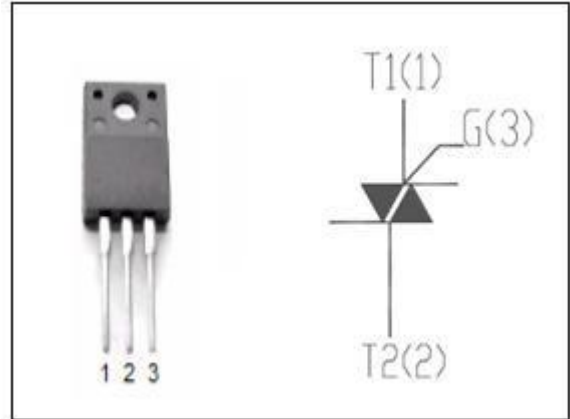


## isc Triacs

## TMG8C80F

## FEATURES

- With TO-220F package
- Glass passivated triacs in a plastic envelope, for use in Applications requiring high bidirectional transient and blocking voltage capability and high thermal cycling performance. Typical applications include motor control, industrial and domestic lighting, heating and static switching.



## ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	MIN	UNIT
V <sub>DRM</sub>	Repetitive peak off-state voltage	800	V
V <sub>RRM</sub>	Repetitive peak off-state voltage	800	V
I <sub>T(RMS)</sub>	RMS on-state current (full sine wave) @T <sub>C</sub> =89°C	8	A
I <sub>TSM</sub>	Non-repetitive peak on-state current	80	A
	One cycle, Peak value non-repetitive	88	
P <sub>GM</sub>	Peak gate power dissipation	5	W
P <sub>G(AV)</sub>	Average gate power dissipation	0.5	W
T <sub>j</sub>	Operating junction temperature	-40~125	°C
T <sub>stg</sub>	Storage temperature	-40~150	°C

ELECTRICAL CHARACTERISTICS (T<sub>C</sub>=25°C unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
I <sub>RRM</sub>	Repetitive peak reverse current	V <sub>R</sub> =V <sub>RRM</sub> , T <sub>j</sub> =125°C		2	mA
I <sub>DRM</sub>	Repetitive peak off-state current	V <sub>D</sub> =V <sub>DRM</sub> , T <sub>j</sub> =125°C		2	mA
V <sub>TM</sub>	On-state voltage	I <sub>TM</sub> = 12A Inst. measurement		1.4	V
I <sub>GT</sub>	Gate trigger current	V <sub>D</sub> =6V; R <sub>L</sub> =10 Ω		30	mA
				30	
				30	
V <sub>GT</sub>	On-state voltage	V <sub>D</sub> =6V; R <sub>L</sub> =10 Ω		1.5	V
				1.5	
				1.5	
I <sub>H</sub>	Holding current			15	mA
R <sub>th(j-c)</sub>	Thermal resistance	Junction to case		3.7	°C/W

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