

**DESCRIPTION**

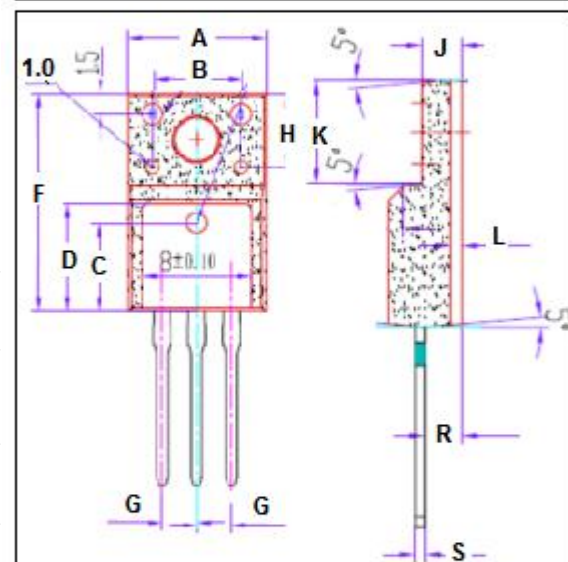
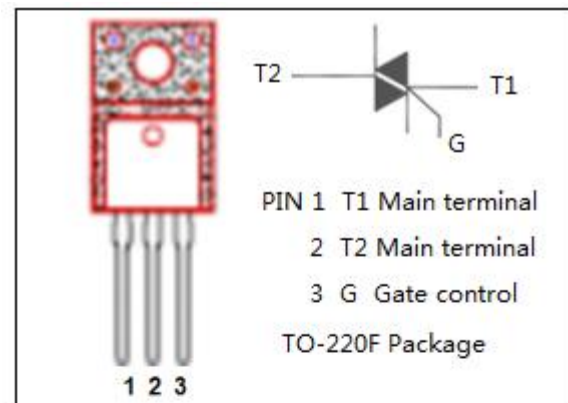
- Exceptional reliability
- Small fully-molded SIP package with heatsink mounting for high thermal dissipation and long life
- 16A on-state current
- Uniform switching
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

**APPLICATIONS**

- The ISC triac is designed for AC power control, providing reliable, uniform switching for full-cycle AC applications

**ABSOLUTE MAXIMUM RATINGS (T<sub>a</sub>=25°C)**

SYMBOL	PARAMETER	MIN	UNIT
V <sub>DRM</sub>	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 T <sub>c</sub> =100°C	16	A
I <sub>TSM</sub>	Surge non-repetitive on-state current T <sub>j</sub> =125°C f=50Hz	160	A
	Surge non-repetitive on-state current T <sub>j</sub> =125°C f=60Hz	168	A
I <sup>2</sup> t	Value for 50Hz half cycle sine wave ,1 cycle I <sub>TSM</sub> =160A	128	A <sup>2</sup> S
T <sub>j</sub>	Operating Junction temperature	-40~+125	°C
T <sub>stg</sub>	Storage temperature	-40 ~+125	°C



DIM	mm	
	MIN	MAX
A	10.06	10.26
B	6.5	
C	6.4	
D	7.7	7.9
F	15.77	15.97
G	2.52	2.56
H	5.3	5.5
J	2.615	2.465
K	6.58	6.78
L	0.7	
R	2.35	
S	0.59	0.61

**ELECTRICAL CHARACTERISTICS (TC=25°C unless otherwise specified)**

SYMBOL	PARAMETER		CONDITIONS	MIN	TYP.	MAX	UNIT
I <sub>RRM</sub>	Repetitive peak reverse current		V <sub>RR</sub> =600V, T <sub>j</sub> =25°C			0.1	mA
I <sub>DRM</sub>	Repetitive peak off-state current		V <sub>DR</sub> =600V, T <sub>j</sub> =25°C			0.1	mA
V <sub>TM</sub>	On-state voltage		I <sub>TM</sub> = 20A			1.45	V
I <sub>GT</sub>	Gate-trigger current	I - II -III	V <sub>D</sub> =12V; R <sub>L</sub> =20 Ω			30	mA
V <sub>GT</sub>	Gate-trigger voltage	I - II -III	V <sub>D</sub> =12V; R <sub>L</sub> =20 Ω			1.5	V

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