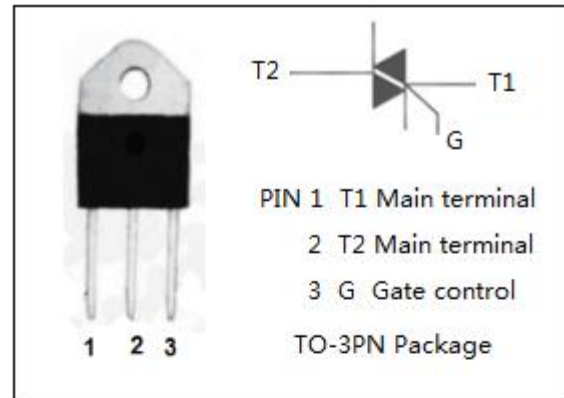


**DESCRIPTION**

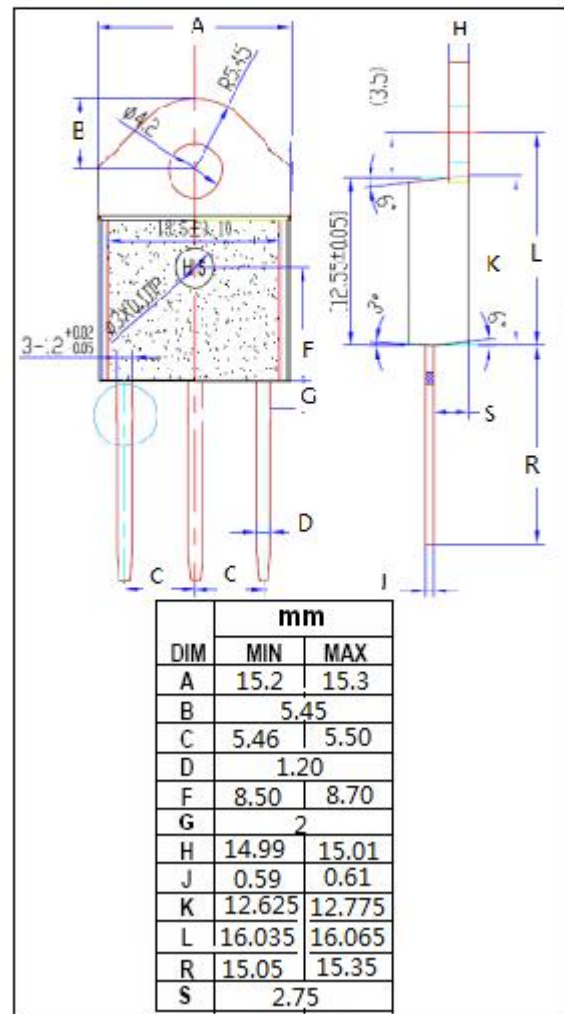
- Exceptional reliability
- Small fully-molded SIP package with heatsink mounting for high thermal dissipation and long life
- 16A on-state current
- Uniform switching
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

**APPLICATIONS**

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


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

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 $T_c=100^\circ\text{C}$	16	A
$I_{TSM}$	Surge non-repetitive on-state current $T_j=125^\circ\text{C}$ $f=50\text{Hz}$	180	A
	Surge non-repetitive on-state current $T_j=125^\circ\text{C}$ $f=60\text{Hz}$	190	A
$I^2t$	Value for 50Hz half cycle sine wave, 1 cycle $I_{TSM}=160\text{A}$	180	$\text{A}^2\text{S}$
$T_j$	Operating Junction temperature	-40~+125	$^\circ\text{C}$
$T_{stg}$	Storage temperature	-40 ~+125	$^\circ\text{C}$



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

SYMBOL	PARAMETER		CONDITIONS	MIN	TYP.	MAX	UNIT
$I_{RRM}$	Repetitive peak reverse current		$V_{RR}=600V, T_j=25^\circ C$			0.1	mA
$I_{DRM}$	Repetitive peak off-state current		$V_{DR}=600V, T_j=25^\circ C$			0.1	mA
$V_{TM}$	On-state voltage		$I_{TM}= 20A$			1.4	V
$I_{GT}$	Gate-trigger current	I - II -III	$V_D=12V; R_L=20 \Omega$			30	mA
$V_{GT}$	Gate-trigger voltage	I - II -III	$V_D=12V; R_L=20 \Omega$			1.5	V

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