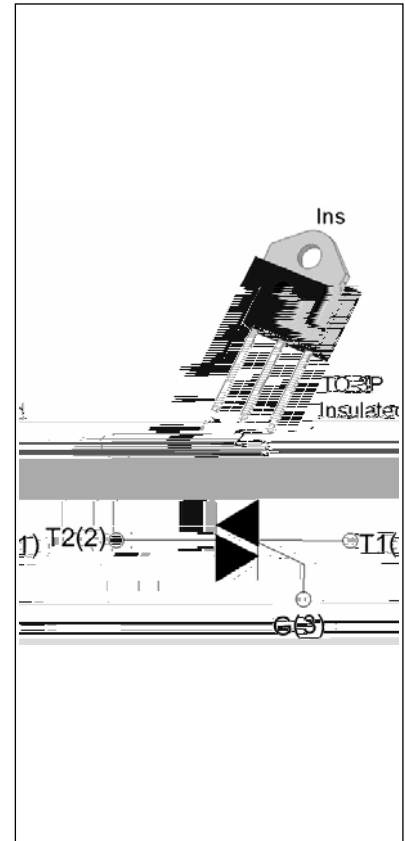


The JST30Z-1600BW triac is suitable for general purpose AC switching. It can be used as an ON/OFF function in applications such as heating regulation, induction motor starting circuits, for phase control operation in light dimmers, motor speed controllers. JST30Z-1600BW snubberless triac is especially recommended for use on inductive loads. By using an internal ceramic pad, JST30Z-1600BW provides a rated insulation voltage of 2500 VRMS, complying with UL standards (File ref: E252906). Package TO-3P is RoHS compliant.

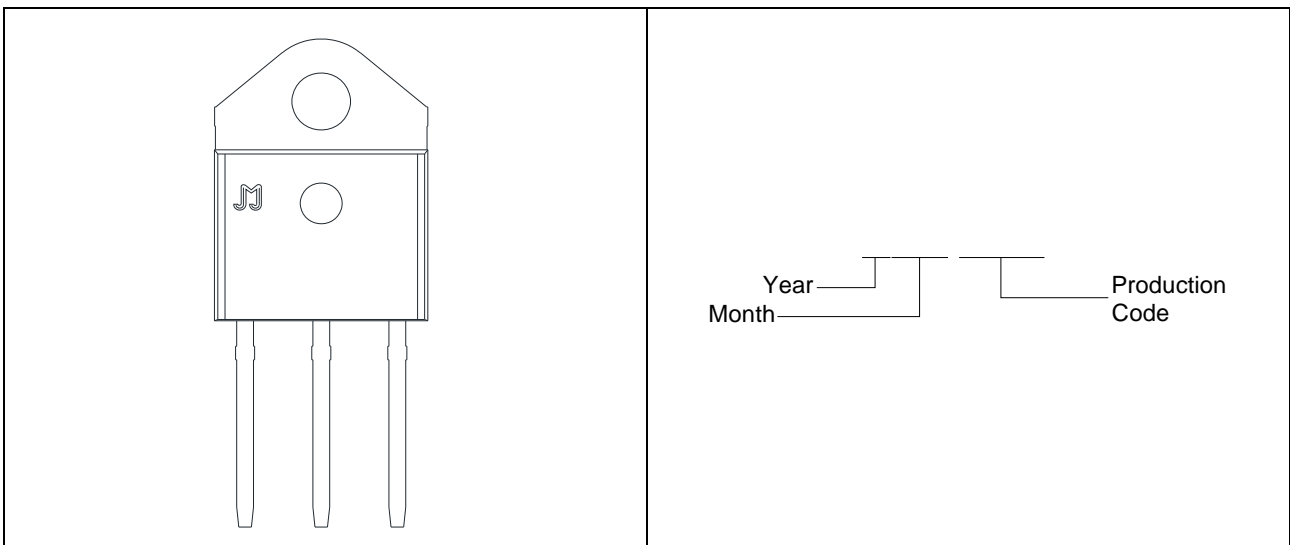
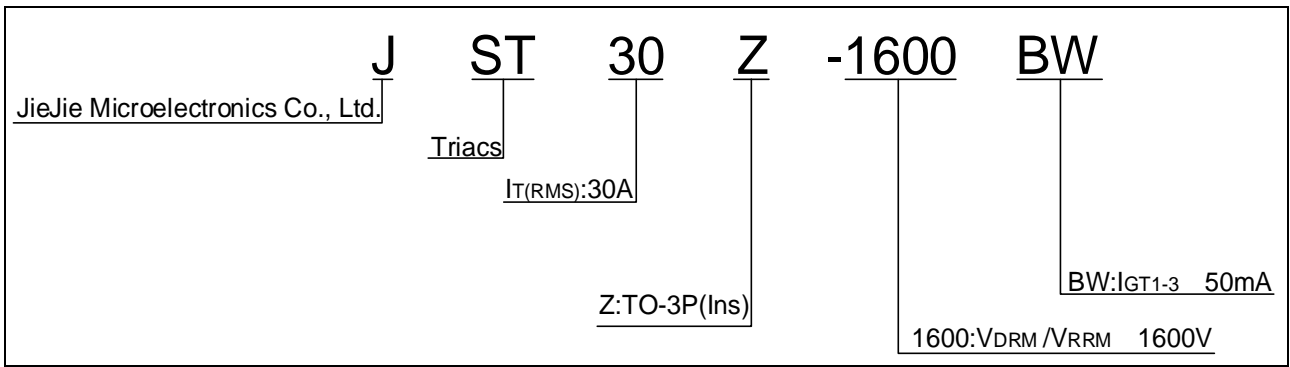


Symbol	Value	Unit
$I_{T(RMS)}$	30	A
V_{DRM}/V_{RRM}	1600	V
$I_{GT} / /$	50/50/50	mA

Storage junction temperature range	T_{stg}	-40-150	
Operating junction temperature range	T_j	-40-125	
Repetitive peak off-state voltage ($T_j=25^\circ C$)	V_{DRM}	1600	V
Repetitive peak reverse voltage ($T_j=25^\circ C$)	V_{RRM}	1600	V
RMS on-state current ($T_c = 72^\circ C$)	$I_{T(RMS)}$	30	A
Non repetitive surge peak on-state current (full cycle, $t_p=20ms$, $T_j=25^\circ C$)	I_{TSM}	300	A
Non repetitive surge peak on-state current (full cycle, $t_p=16.6ms$, $T_j=25^\circ C$)		330	
I^2t value for fusing ($t_p=10ms$, $T_j=25^\circ C$)	I^2t	450	A^2s
Critical rate of rise of on-state current ($I_G=2 \cdot I_{GT}$, $f=100Hz$, $T_j=125^\circ C$)	di/dt	100	$A/\mu s$
Peak gate current ($t_p=20\mu s$, $T_j=125^\circ C$)	I_{GM}	4	A



Average gate power dissipation ($T_j=125$) P



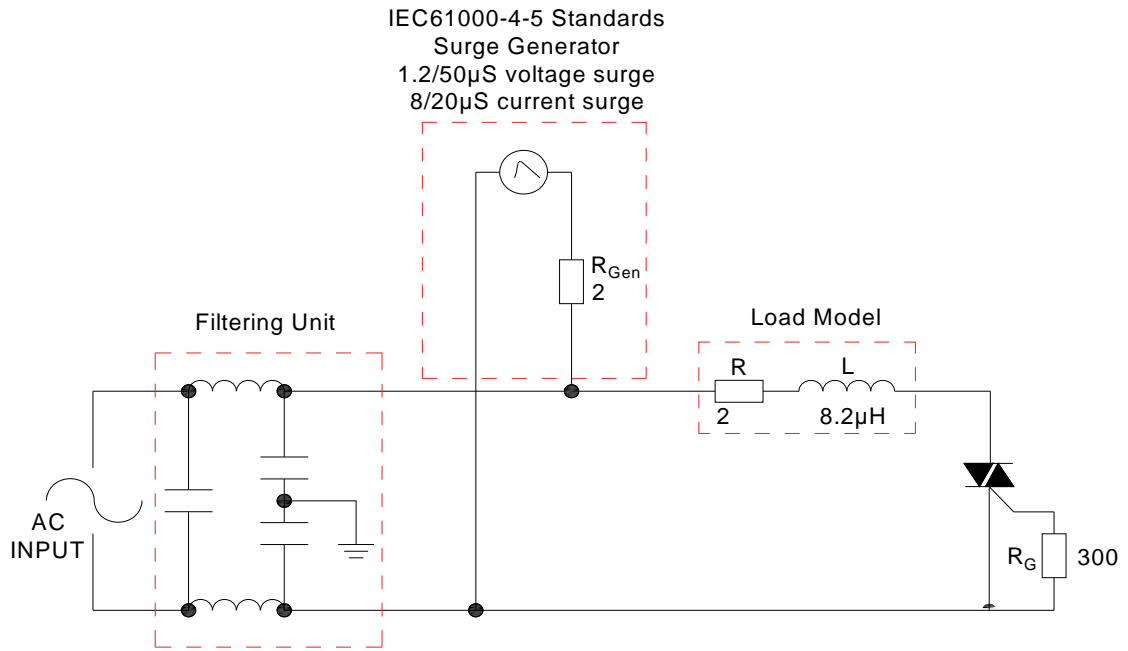


Maximum power dissipation versus RMS
on-state current

RMS on-state current versus case
temperature



FIG.7 Test circuit for inductive and resistive loads to IEC-61000-4-5 standards






Date	Revision	Changes
Apr. 11, 2023	A.1.0	Last updated
Oct. 16, 2025	A.1.1	Revise PACKAGE MECHANICAL DATA





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