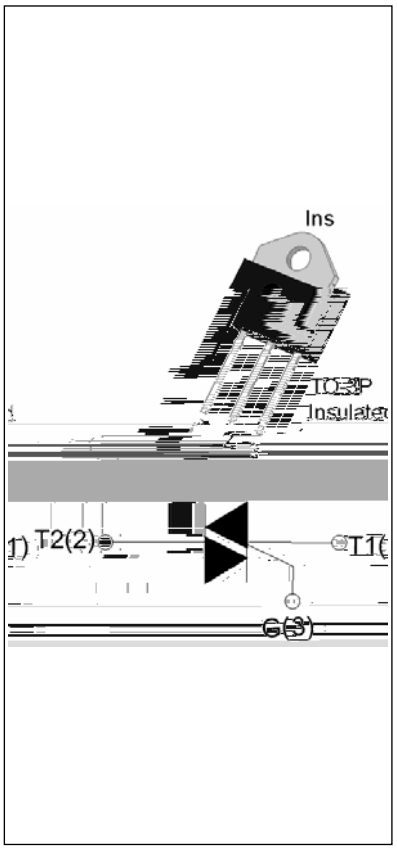
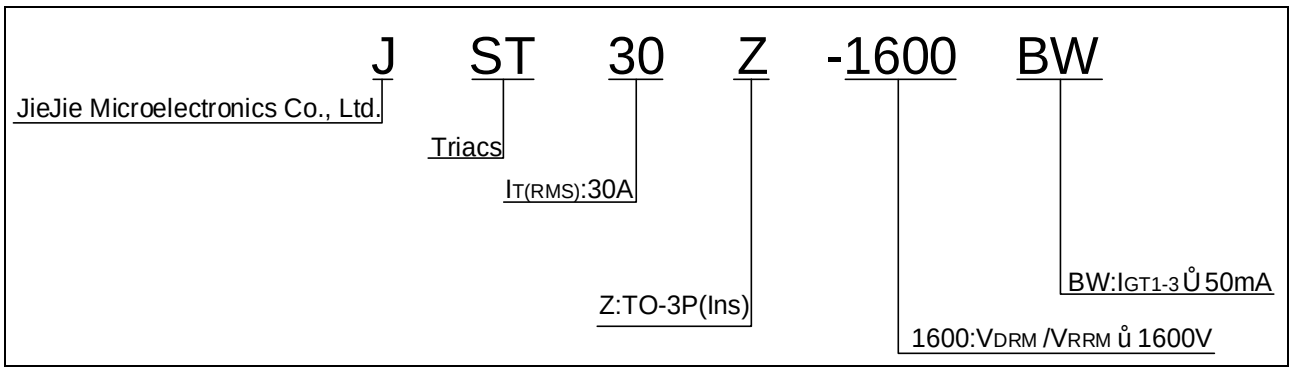
The JST30Z-1600BW triac is suitable for general purpose AC switching. It can be used as an ON/OFF function in applications such as heating regulation, induction motor starting circuits, for phase control operation in light dimmers, motor speed controllers. JST30Z-1600BW snubberless triac is especially 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.

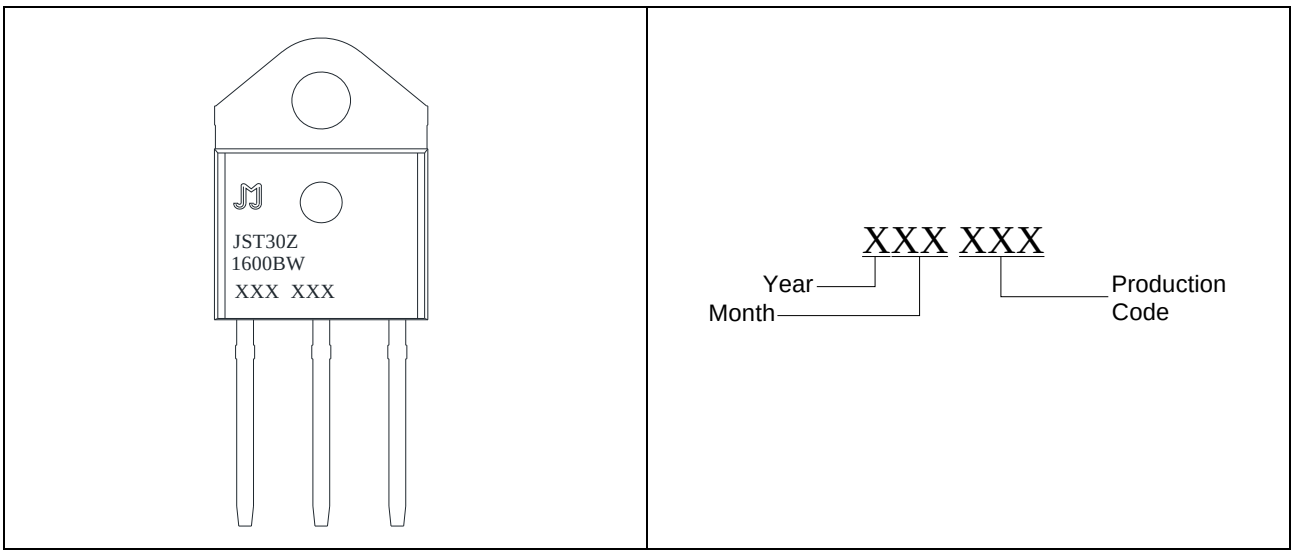


Symbol	Value	Unit
$I_{T(RMS)}$	30	A
V_{DRM}/V_{RRM}	1600	V
I_{GT} Ñ/ñ/ħ	50/50/50	mA

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

Average gate power dissipation (T_j=125℃)	P	

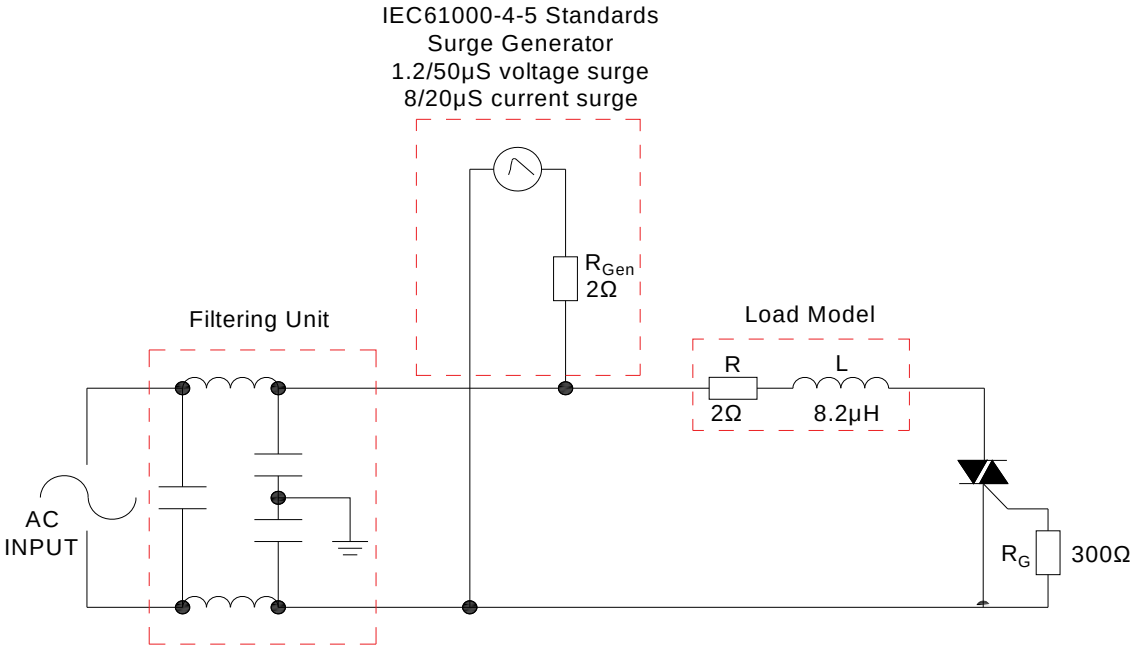

J
ST
30
Z
-1600
BW
JieJie Microelectronics Co., Ltd.
Triacs
IT(RMS):30A
Z:TO-3P(Ins)
1600:VDRM /VRRM ů 1600V
BW:IGT1-3 Ů 50mA


JST30Z
1600BW
XXX XXX
XXX XXX
Year
Month
Production
Code

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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