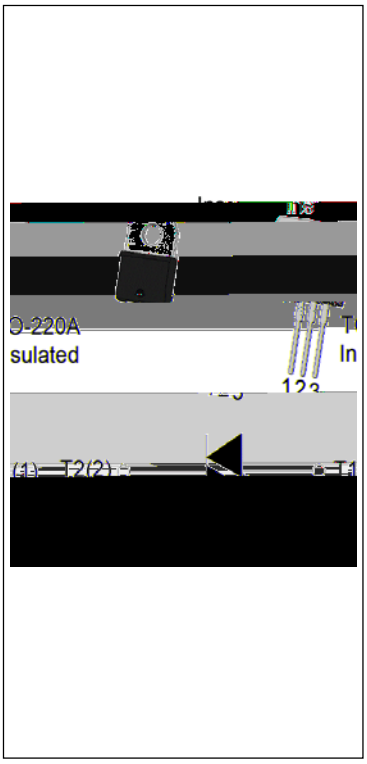
JST16i-800BW 16A TRIAC

Rev.A.1.1

DESCRIPTION:

The JST16i-800BW triac is suitable for general purpose AC switching. It is more suitable for the switch functions of washing machines' water valve, positive inversion of motor, heat pump...JST16i-800BW snubberless triac is especially recommended for use on inductive loads. By using an internal ceramic pad, JST16i-800BW provides a rated insulation voltage of 2500 VRMS, complying with UL standards (File ref: E252906). Package TO-220A is RoHS compliant.



MAIN FEATURES

Symbol	Value	Unit
$I_{T(RMS)}$	16	A
V_{DRM} /V_{RRM}	800	V
I_{GT} / /	50/50/50	mA

ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Value	Unit
Storage junction temperature range	T_{stg}	-40-150	
Operating junction temperature range	T_j	-40-125	
Repetitive peak off-state voltage (T_j=25)	V_{DRM}	800	V
Repetitive peak reverse voltage (T_j=25)	V_{RRM}	800	V
RMS on-state current (T_C 81)	$I_{T(RMS)}$	16	A
Non repetitive surge peak on-state current (full cycle , t_p=20ms , T_j=25)	I_{TSM}	170	A
Non repetitive surge peak on-state current (full cycle , t_p=16.6ms , T_j=25)		180	
I^2t value for fusing (t_p=10ms , T_j=25)	I^2t	145	A^2s
Critical rate of rise of on-state current (I_G=2 × I_{GT} , f=100Hz , T_j=125)	dI/dt	100	A/μs
Peak gate current (t_p=20μs , T_j=125)	I_{GM}	4	A
Average gate power dissipation (T_j=125)	$P_{G(AV)}$	0.5	W
Peak gate power	P_{GM}	10	W

JST16i-800BW

ORDERING INFORMATION

J ST 16 i 0 BW

- JieJie Microelectronics Co., Ltd.
- Triacs
- $I_{T(RMS)}$

BW:I_{GT1-3} 50mA

0:V_{DRM} /V_{RRM} 800V

FIG.1: Maximum power dissipation versus RMS on-state current

F MS on-state current versus case te ure

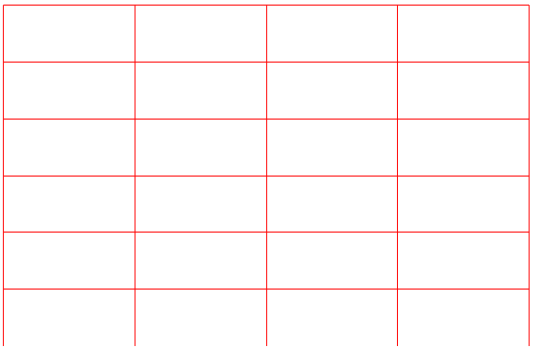
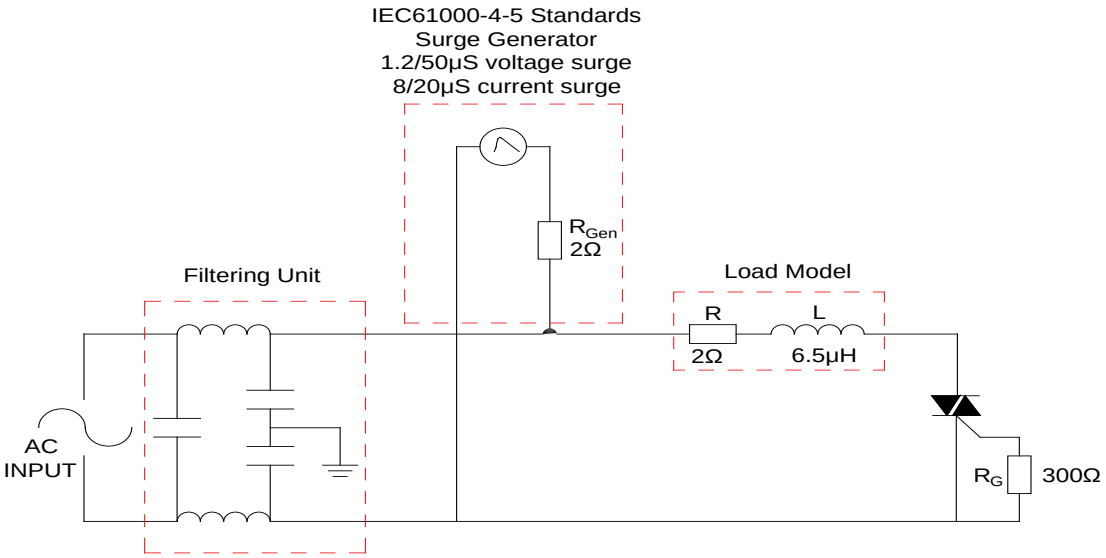


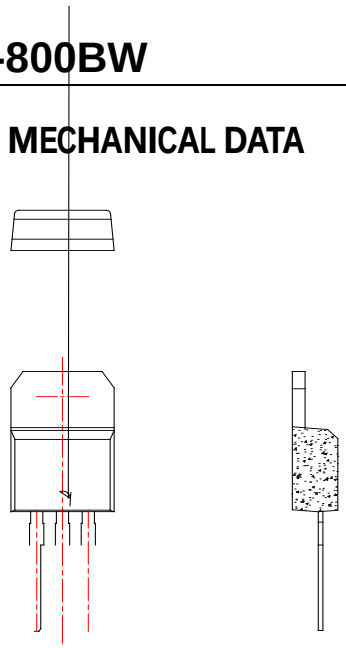
FIG.7 Test circuit for inductive and resistive loads to IEC-61000-4-5 standards



ORDERING INFORMATION

Order code	Voltage V_{DRM}/V_{RRM}

PACKAGE MECHANICAL DATA



JST16i-800BW