JST24C-1200BW 25A TRIAC

Rev.A.1.1

DESCRIPTION:

The JST24C-1200BW 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. JST24C-1200BW snubberless triac is especially recommended for use on inductive loads. From T2 terminals to external heatsink. Package TO-220C is RoHS compliant.

MAIN FEATURES

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}	1200	V
Repetitive peak reverse voltage (T_j=25)	V_{RRM}	1200	V
RMS on-state current ($T_C \leq$ 100)	$I_{T(RMS)}$	25	A
Non repetitive surge peak on-state current (full cycle , t_p=20ms , T_j=25)	I_{TSM}	250	A
Non repetitive surge peak on-state current (full cycle , t_p=16.6ms , T_j=25)		275	
I^2t value for fusing (t_p=10ms , T_j=25)	I^2t	340	A^2s
Critical rate of rise of on-state current			

ORDERING INFORMATION

J	ST	24	C	-1200	BW
JieJie Microelectronics Co., Ltd.	Triacs	$I_{T(RMS)}$:25A	C:TO-220C	1200:V_{DRM} /V_{RRM} ≥ 1200V	BW:I_{GT1-3} ≤ 50mA

MARKING

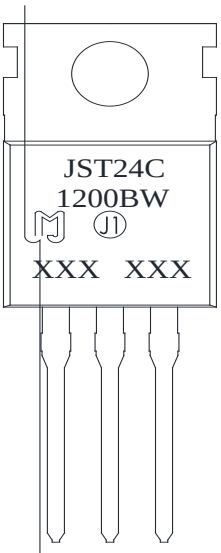


FIG.1: Maximum power dissipation versus RMS on-state current

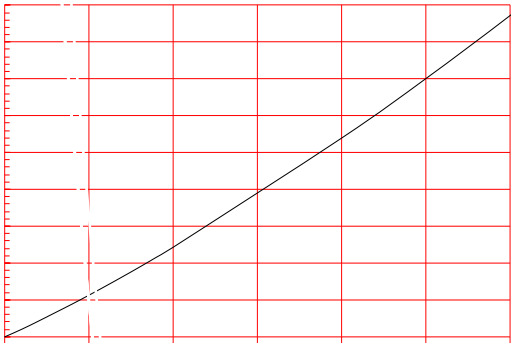
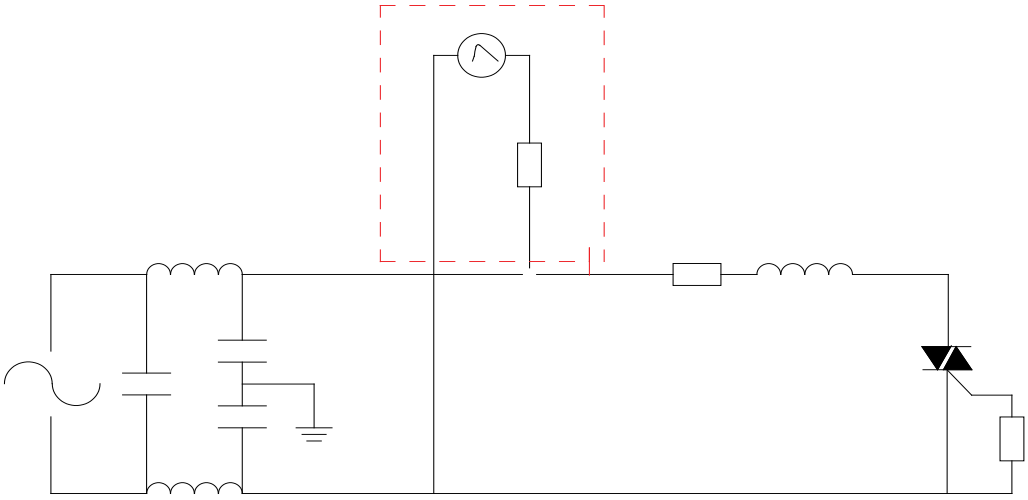


FIG.2: RMS on-state current versus case temperature

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



ORDERING INFORMATION



PACKAGE MECHANICAL DATA



Information furnished in this document is believed to be accurate and reliable. However,