

**JST24A-1600BW 25A TRIAC**

Rev.A.1.1

DESCRIPTION:

The JST24A-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. JST24A-1600BW snubberless triac is especially recommended for use on inductive loads. By using an internal ceramic pad, JST24A-1600BW provides a rated insulation voltage of 2500 VRMS, complying with UL standards (File ref: E252906). Package TO-220A 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 ($T_j=25^\circ\text{C}$)	V_{DRM}	1600	V
Repetitive peak reverse voltage ($T_j=25^\circ\text{C}$)	V_{RRM}	1600	V

Average gate power dissipation (T _j =125)	P _{G(AV)}	0.5	W
Peak gate power	P _{GM}	10	W
Peak pulse voltage (T _j =25 ; non			

ORDERING INFORMATION

	J	ST	24	A	-1600	BW
JieJie Microelectronics Co., Ltd.		Triacs				
		IT(RMS):25A				
			A:TO-220A(Ins)			
						BW:IGT1-3 50mA
					1600:VDRM /VRRM	1600V

MARKING

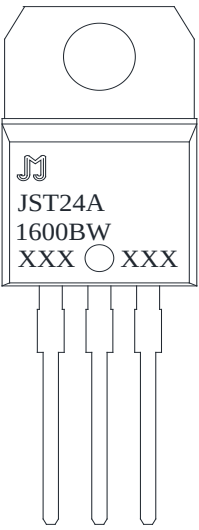
 The diagram shows a TO-220 package with a circular hole at the top. The marking area contains the JieJie logo, the part number JST24A, the voltage rating 1600BW, and a date code XXX followed by a circle and another XXX.	XXX XXX Year Month Production Code
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FIG.1: Maximum power dissipation versus RMS on-state current

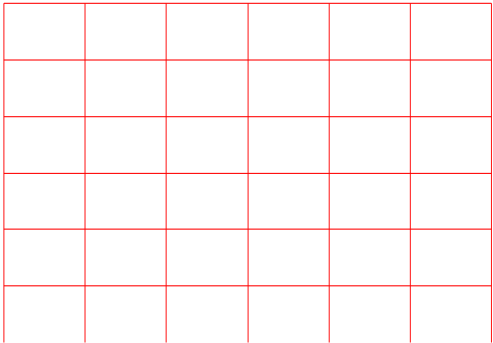
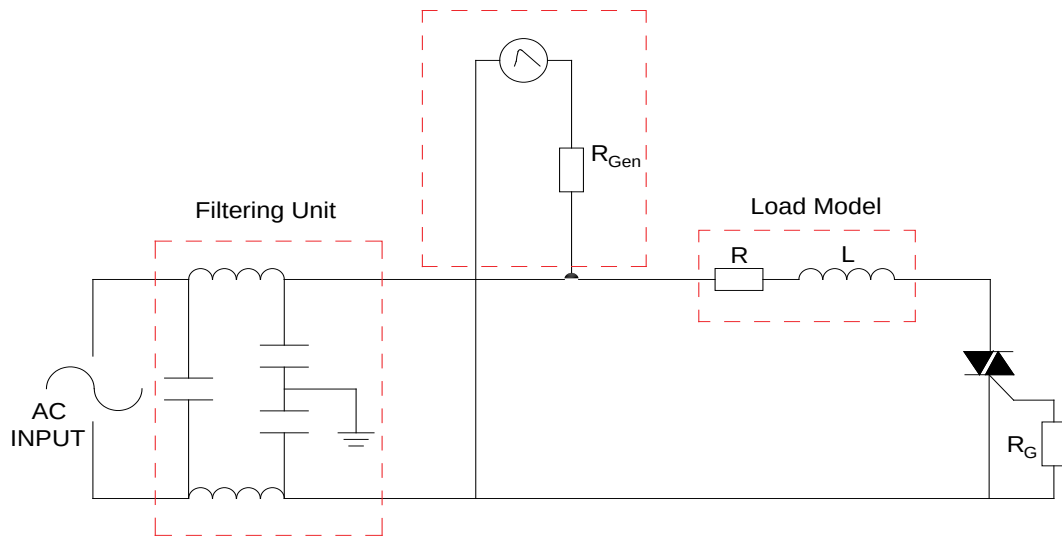


FIG.2: RMS on-state current versus case temperature

FIG.7 Test circuit for inductive and resistive loads to IEC-61000-4-5 standardsIEC61000-4-5 Standards
Surge Generator

ORDERING INFORMATION

Order code	Voltage $V_{\text{DRM}}/V_{\text{RRM}}$ (V)	IGT(mA)	Package	Base qty. (pcs)	Delivery mode
		H- I- J			
JST24A-1600BW	1600	50	TO-220A(Ins)	50	Tube

Document Revision History

Date	Revision	Changes
Apr.12, 2023	A.1.0	Last updated
Oct.13, 2025	A.1.1	Revise PACKAGE MECHANICAL DATA

PACKAGE MECHANICAL DATA

