

JST131V-600D 1A TRIAC

Rev.A.1.1

DESCRIPTION:

The JST131V-600D 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. Package SOT-223 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}	600	V

ELECTRICAL CHARACTERISTICS (unless otherwise specified)

Symbol	Test Condition	Quadrant	Value	Unit
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ORDERING INFORMATION

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FIG.1: Maximum power dissipation versus RMS

on-state current $I_{DS(on)}$ [A] T_d [(MTj) EMC /P [(R)-7.v)12M5 Tc5J -0.1t

FIG.7: Relative variations of gate trigger current,
holding current and latching current versus
junction temperature

FIG.8 ÖTest circuit for inductive and resistive loads to IEC-

ORDERING INFORMATION

Order code	Voltage $V_{\text{DRM}}/V_{\text{RRM}}$ (V)	IGT(mA)		Package	Base qty. (pcs)	Delivery mode
		- -				
JST131V-600D	600	5	10	SOT-223	4,000	Tape & Reel

Document Revision History

Date	Revision	Changes
Apr.14, 2023	A.1.0	Last updated
Oct.23, 2025	A.1.1	Revise PACKAGE MECHANICAL DATA

PACKAGE MECHANICAL DATA

Ref. [(M7150.D001) 1E
Dimensions
mm
Inches

DELIVERY MODE

Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
W	-		12.30			
E	1.65	1.75	1.85			
F	5.45	5.50	5.55			
D0		1.55	1.60			
D1		-				
P0	3.90	4.00	4.10			
P1	7.90	8.00	8.10			
P2	1.95	2.00	2.05			
10P0						
A0						
B0						
K0						
T						

