

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 ($T_j=25$)	V_{DRM}	600	V

ELECTRICAL CHARACTERISTICS (unless otherwise specified)

Symbol	Test Condition	Quadrant	Value	Unit
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ORDERING INFORMATION

J ST 1318 181.4

FIG.1: Maximum power dissipation versus RMS
on-state current $P_{Tj} = P_{EMC} / P_{(R-7.5)} \cdot 12M5 Tc5J - 0.1t$

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_{DRM}/V_{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.	Dimensions	
	Millimeters	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						

