



JST131W-600E 1A TRIAC

Rev.A.1.1

DESCRIPTION:

The JST131W-600E triac is a stable general purpose AC switching device. It can be used as an ON/OFF switch in a wide range of applications. It is suitable for switching inductive loads. It is available in a SOT-223-2L package.

MAIN FEATURES

ABSOLUTE MAXIMUM RATINGS

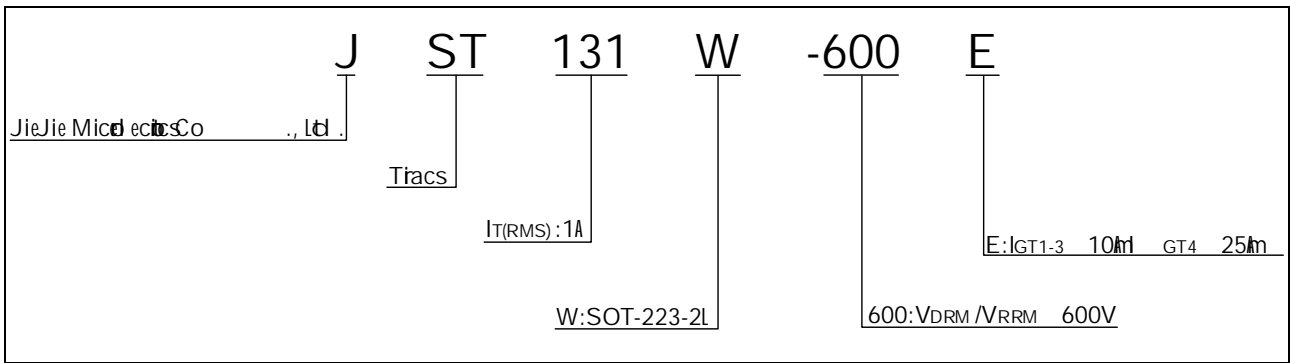
Parameter	Symbol	Value	Unit
Storage temperature	$T_s$	-40-150	
Operating temperature	$T_j$	-40-125	
Reverse peak voltage ( $T_j=25^\circ\text{C}$ )	$V_{DRM}$	600	V
Reverse peak voltage ( $T_j=25^\circ\text{C}$ )	$V_{RRM}$	600	V
RMS on-state current ( $T_c=98^\circ\text{C}$ )	$I_{T(RMS)}$	1	A
Non-repetitive peak on-state current (full cycle, $t_p=20\text{ms}$ , $T_j=25^\circ\text{C}$ )	$I_{TSM}$	16.5	A

ELECTRICAL CHARACTERISTICS (Specified)

Symbol	Test Condition	Quadrant	Value		Unit
I <sub>GT</sub>	V <sub>D</sub> =12V R <sub>L</sub> =33	- -	MAX.	10	A
				25	
V <sub>GT</sub>		ALL	MAX.	1.3	V
V <sub>GD</sub>	V <sub>D</sub> =V <sub>DRM</sub> T <sub>j</sub> =125 R <sub>L</sub> =3.3k	ALL	MIN.	0.2	V
I <sub>L</sub>	I <sub>G</sub> =1.2I <sub>GT</sub>	- -	MAX.	15	A
				30	
I <sub>H</sub>	I <sub>T</sub> =50mA		MAX.	15	A
d	V <sub>D</sub> =400V Gate Op n <sub>T</sub> =110 V/d		MIN.	250	Vs

(d) (d) 0.44A/μT j=1 V/d AmAm/d )c )c=

ORDERING INFORMATION



MARKING

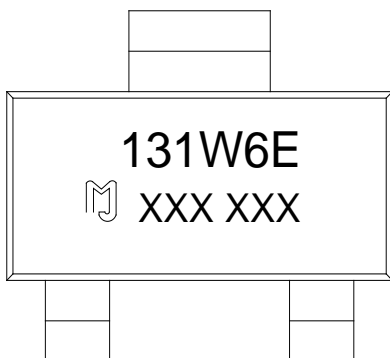


FIG.1: Main  
input



FIG.2: RMS  
output

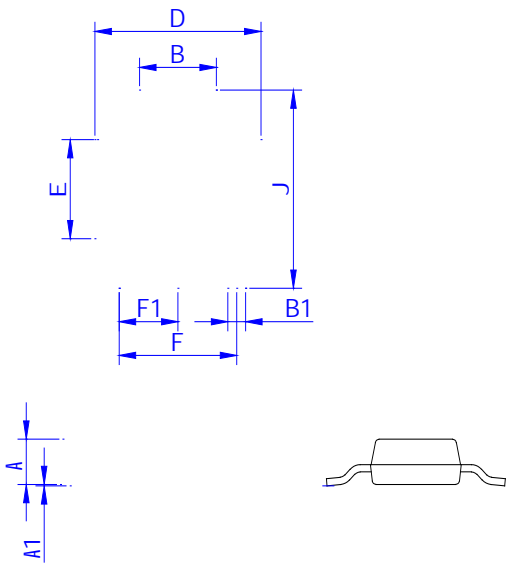




**JST131W-600E**

**JieJie Microelectronics Co., Ltd.** 55 3Tm 75 548

PACKAGE MECHANICAL DATA



DELIVERY MODE

Ref.	Mill ients	Diens	IoDE
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