



JST131W-600E 1A TRIAC

Rev.A.1.1

DESCRIPTION:

The JST131W-600E triac is a general purpose AC switching device. It can be used in a wide range of applications, such as motor speed control, light dimming, and ON/OFF photo relay. It is a 1A, 600V, 100W device, and is packaged 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 ($T_j \leq 98^\circ\text{C}$)	$I_{T(RMS)}$	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 (Typical values at T_J=25℃ unless specified)

Symbol	Test Condition	Quadrant	Value		Unit
I _{GT}	V _D =12V R _L =33Ω	- -	MAX.	10	mA
				25	
V _{GT}		ALL	MAX.	1.3	V
V _{GD}	V _D =V _{DRM} T _J =125℃ R _L =3.3kΩ	ALL	MIN.	0.2	V
I _L	I _G =1.2I _{GT}	- -	MAX.	15	mA
				30	
I _H	I _T =50mA		MAX.	15	mA
	V _D =400V Gate Op. r _{DS(on)} =110mΩ		MIN.	250	Vs

(44A/gT d=1 V/mAmAmA d d)c)c=

ORDERING INFORMATION

J	ST	131	W	-600	E
JieJie Microelectronics Co., Ltd.	Tracs	d			
		IT(RMS):1A			E:IGT1-3 ≤ 10m GT4 ≤ 25m
		W:SOT-223-2L			600:VDRM /VRRM ≥ 600V

MARKING

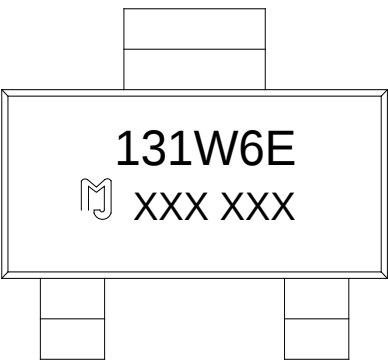


FIG.1: Main d
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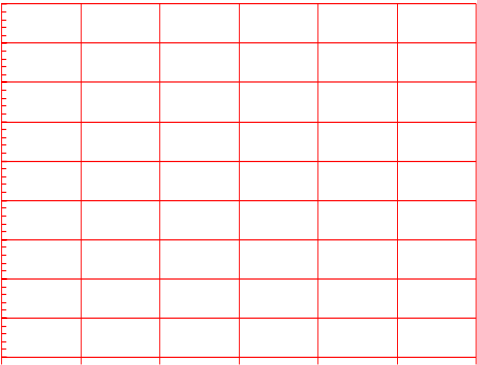
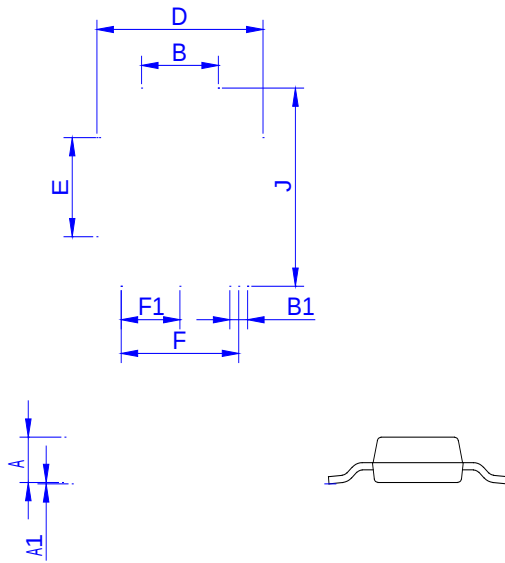


FIG.2: RMS o -at cas
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PACKAGE MECHANICAL DATA



DELIVERY MODE

Ref.	Units	Die	
		Mill	LoDE

