JST134V-800E 1A TRIAC

Rev.A.1.1

DESCRIPTION:

The JST134V-800E 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

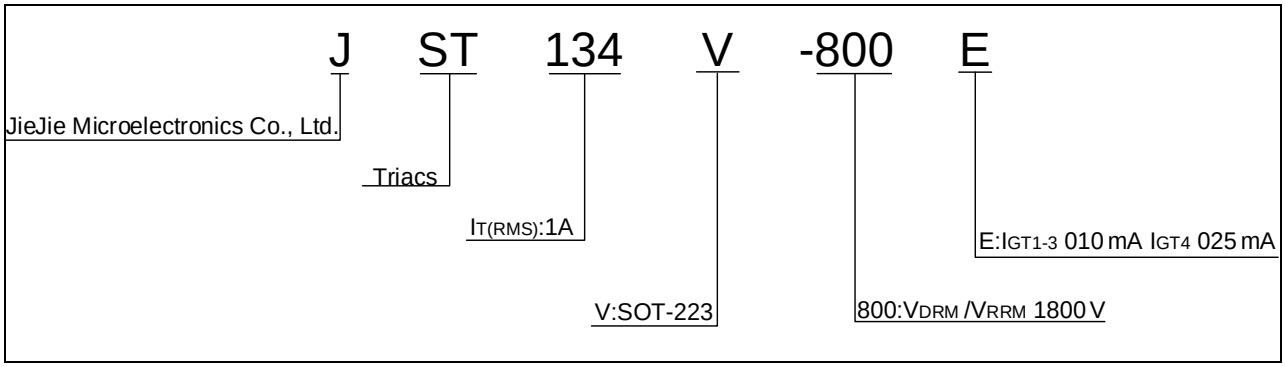
ABSOLUTE MAXIMUM RATINGS

ELECTRICAL CHARACTERISTICS (T_j=25 unless otherwise specified)

Symbol	Test Condition	Quadrant	Value		Unit
I_{GT}	V_D=12V R_L=33Ω	- -	MAX	10 25	mA

AL 0 TcL.94 0 Td ( )Tj EM78 /P <</MCID 7>>BDC -12 0 0 24c 0.003 Tw 3.02 -1.02 Td [(MA9f)-4 (t)]c 0 Tw 2.1

ORDERING INFORMATION



MARKING

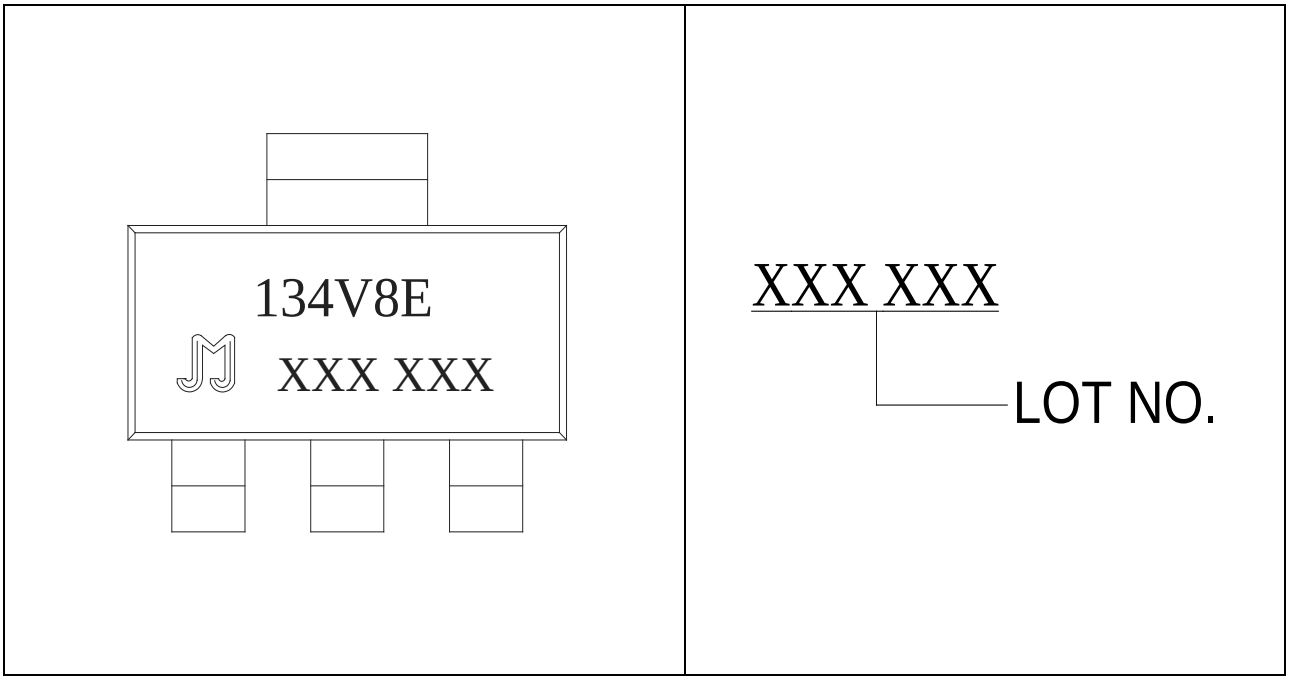


FIG.1: Maximum power dissipation versus RMS on-state current

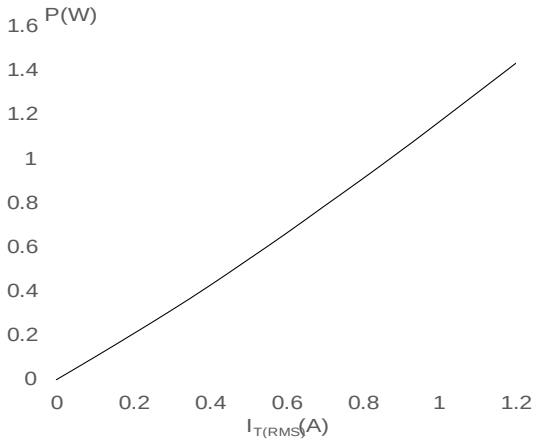


FIG.2: RMS on-state current versus case temperature

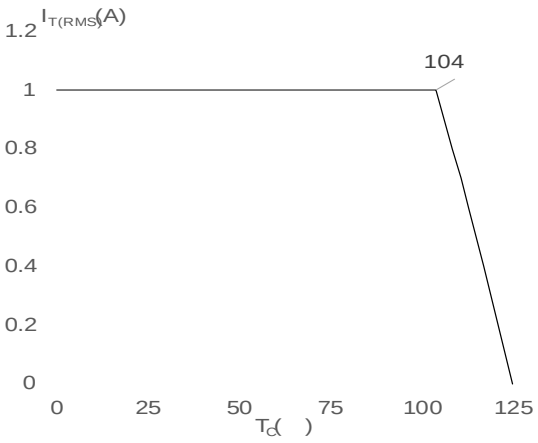


FIG.3: RMS on-state current versus ambient temperature (printed circuit board FR4, copper thickness: P (full cycle)

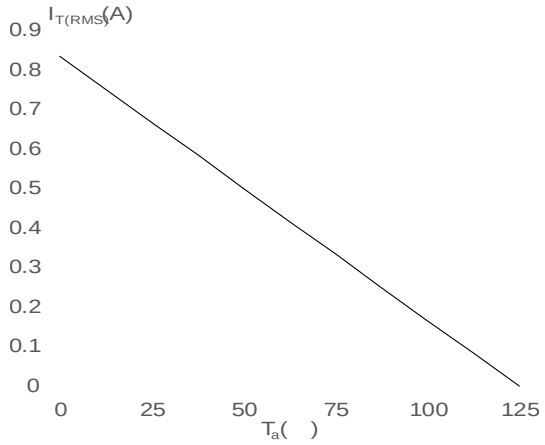


FIG.4: Surge peak on-state current versus number of cycles

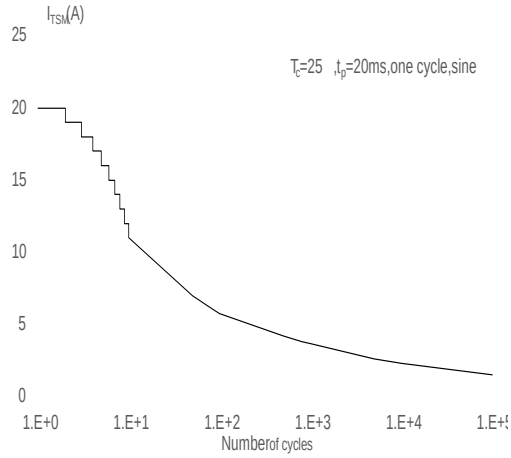


FIG.5: On-state characteristics

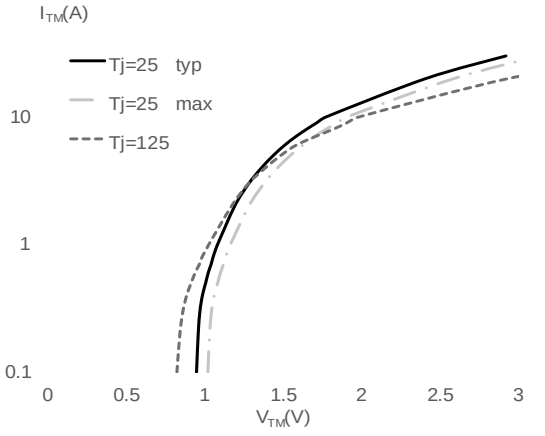
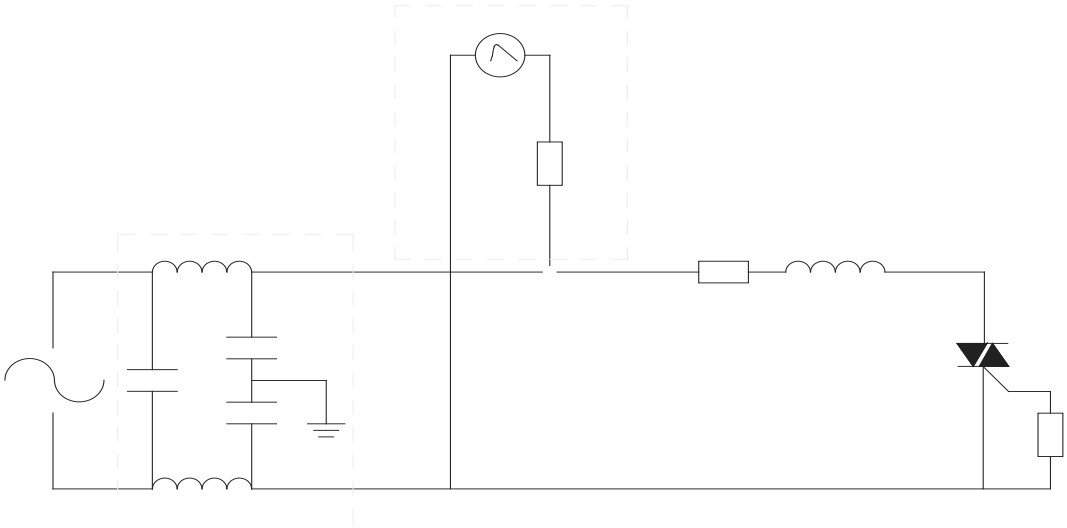


FIG.6: Non-repetitive surge peak on-state current for a sinusoidal pulse with width t_p<20ms, and corresponding value of I^2t

(- - : dI/dt<70 $ V : dI/dt<40 $)V

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

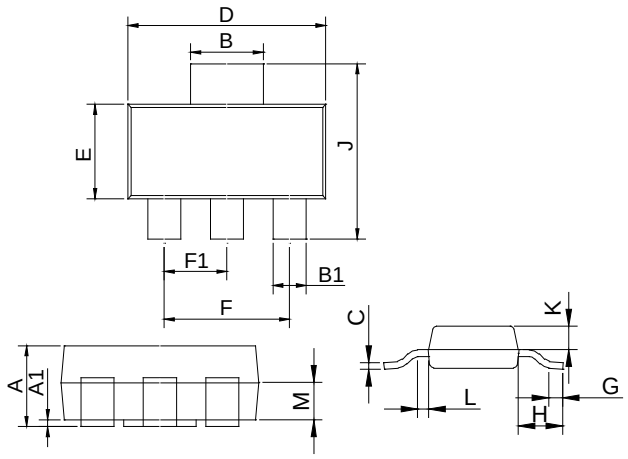
FIG.8 ÖTest circuit for inductive and resistive loads to IEC-61000-4-5 standards



ORDERING INFORMATION

Order code	Voltage V_{DRM}/V_{RRM} (V)	IGT(mA)		Package	Base qty. (pcs)	Delivery mode
		-	-			
JST134V-800E	800	10101				0

PACKAGE MECHANICAL DATA



Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	1.50	1.60	1.80	0.059	0.063	0.071
A1	0.01	0.06	0.10	0.001	0.002	0.004
B	2.90	3.00	3.10	0.114	0.118	0.122
B1	0.60	0.70	0.80	0.024	0.028	0.031
C	0.22	0.26	0.32	0.009	0.010	0.013
D	6.30	6.50	6.70	0.248	0.256	0.264
E	3.30	3.50	3.70	0.130	0.138	0.146
F	4.40		4.80	0.173		0.189
F1	2.20		2.40	0.087		0.094
G	0.50		1.00	0.020		0.039
H	1.50	1.75	2.00	0.059	0.069	0.079
J	6.70	7.00	7.30	0.264	0.276	0.287
K	0.80		1.00	0.031		0.039
L	0.40		0.80	0.016		0.031
M	0.65		0.80	0.026		0.031

FOOTPRINT, SOT-223 (dimensions in mm)



DELIVERY MODE



s		
Inches		
n.	Typ.	Max.
		0.482
65	0.069	0.073
15	0.217	0.219
	0.061	0.063
54	0.157	0.161
11	0.315	0.319
77	0.079	0.081
67	1.575	1.583
69	0.273	0.276
80	0.284	0.288
76	0.080	0.084
08	0.010	0.012

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