



JST136V-800E 1A TRIAC

Rev.A.1.1

DESCRIPTION:

The JST136V-800E is a sensitive triac for AC switching. It can be used as ON/OFF control in power switching applications. It is suitable for use in AC circuits. It is packaged in SOT-223 package.

MAIN FEATURES

ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Value	Unit
Storage temperature	T _s	-40-150	
Operating temperature	T _j	-40-125	
Repetitive peak reverse voltage (T _j =25 °C)	V _{DRM}	800	V
Repetitive peak reverse voltage (T _j =25 °C)			

ELECTRICAL CHARACTERISTICS (Specified)

Symbol	Test Condition	Quadrant	Value		Unit
I _{GT}	V _D =12V R _L =33	- -	MAX .	10	A
				25	
V _{GT}		ALL	MAX .	1.3	V
V _{GD}	V _D =V _{DRM} T _j =125 R _L =3.3k	ALL	MIN .	0.2	V
I _L	I _G =1.2I _{GT}	-	MAX .	20	A
		-		30	
I _H	I _T =100A		MAX .	15	A
dV/dt	V _D =540V G _{at} Op nT _j =110		MIN .	250	V/μs
(dV/dt) _c	(dI/dt) _c =1.8/sT _j =110		MIN .	6	V/μs
t _o	I _G =40A I _A =200A I _R =20A		TYP.	1.5	μs
t _{tr}	T _j =25			15	

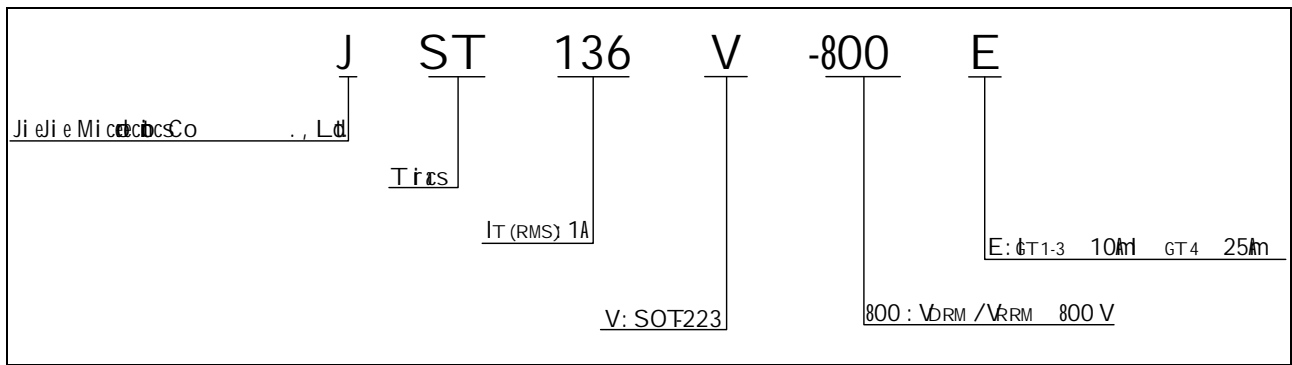
STATIC CHARACTERISTICS

Symbol	Parameter		Value(MAX.)	Unit
V _{TM}	I _{TM} =5A t _p =380μs	T _j =25	1.7	V
V _{TO}	Threshold	T _j =125	0.94	V
R _D	Diode	T _j =125	124	m
I _{DRM}	V _D =V _{DRM} V _R =V _R RM	T _j =25	5	μA
I _R RM		T _j =125	0.4	A

THERMAL RESISTANCES

Symbol	Parameter	Value	Unit
R _{th(j-c)}	junction (AC)	15	/W
R _{th(j-a)}	junction (AC)	150	/W

ORDERING INFORMATION



MARKING

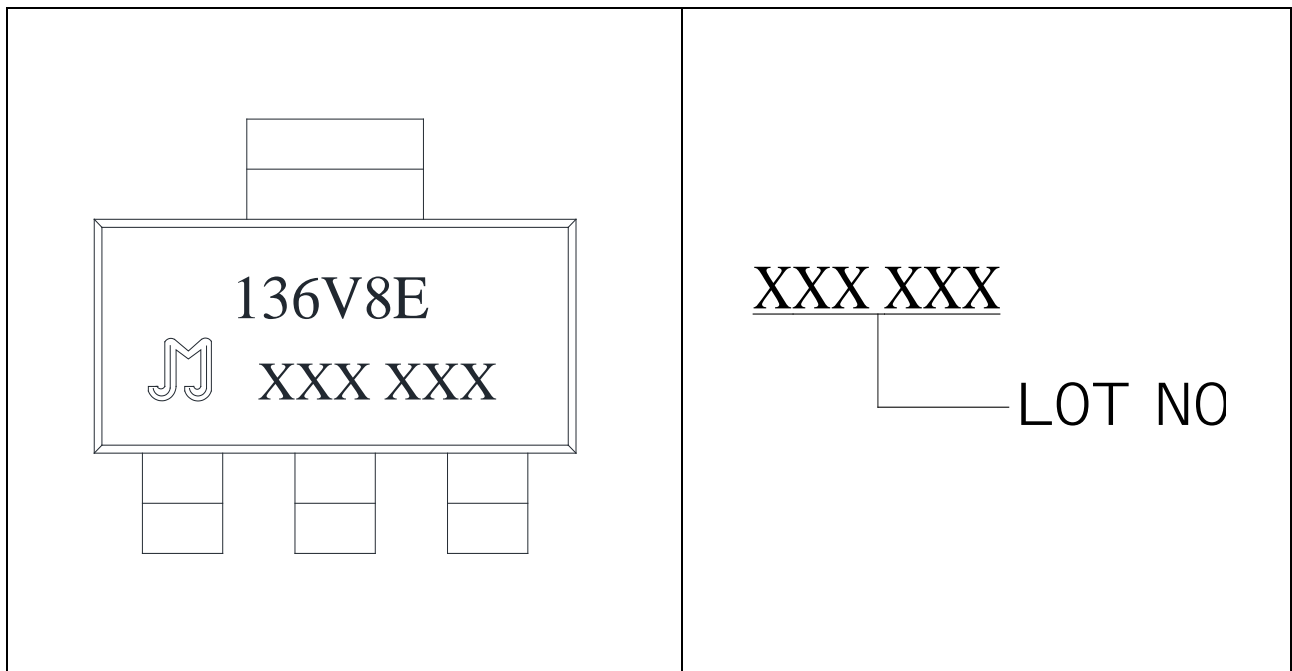


FIG.1: Microscope

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

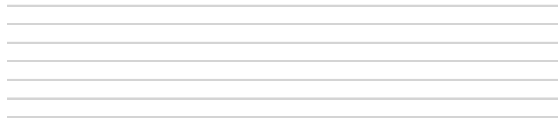
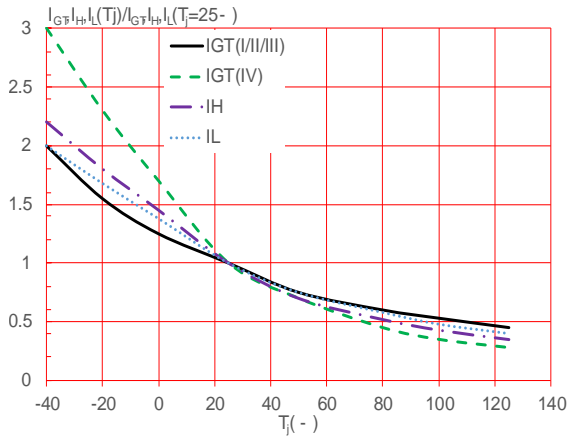
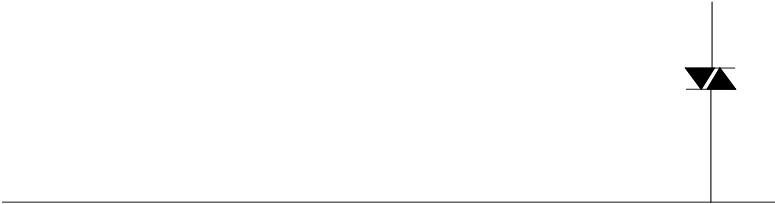


FIG.2: RMS

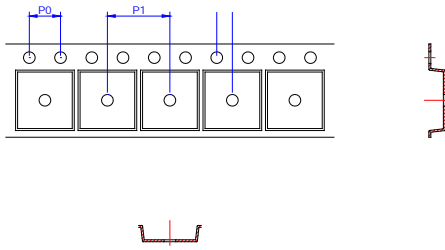
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

FIG.7: Relative gain temperature
 hbi g cnd lthi g cns
 jci cph





DELIVERY MODE



Ref.	Dimensions					
	Millimeters			Inches		
	Min	Typ	Max	Min	Typ	Max
W	-		12.30	-		0.482
E	1.65	1.75	1.85	0.065	0.069	0.073
F	5.45	5.50	5.55	0.215	0.217	0.219
D0		1.55	1.60		0.061	0.063
D1		-	-			
P0	3.90	4.00	4.10	0.154	0.157	0.161
P1	7.90	8.00	8.10	0.311	0.315	0.319
P2	1.95	2.00	2.05	0.077	0.079	0.081
10P0	39.80	40.00	40.20	1.567	1.575	1.583
A0	6.85	6.95	7.05	0.269	0.273	0.276
B0	7.15	7.25	7.35	0.280	0.284	0.288
K0	1.95	2.05	2.15	0.076	0.080	0.084
T	0.20	0.25	0.30	0.008	0.010	0.012

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