JST08E-800SW 8A TRIAC

Rev.A.1.1

DESCRIPTION:

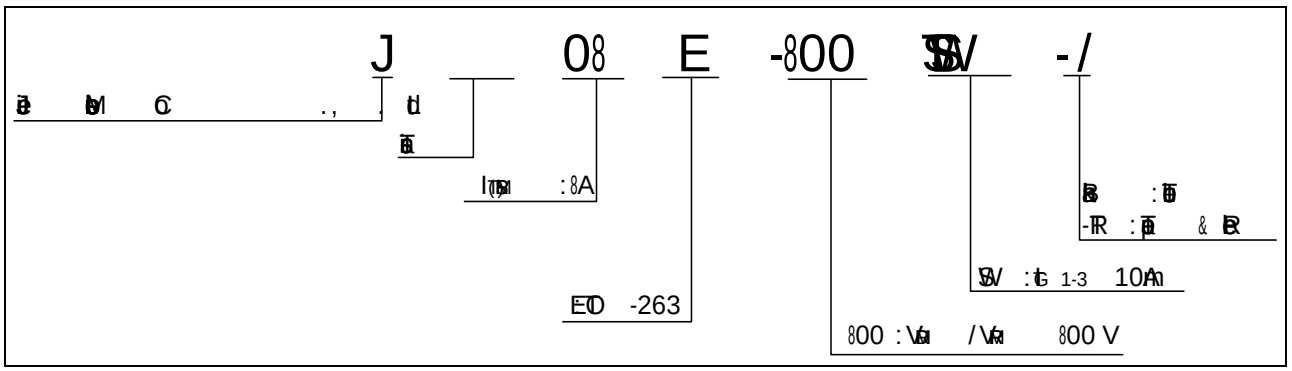
The JST08E-800SW is the high performance glass passivated PNP silicon rectifiers in Surface Mount Power Package. Use in general purpose bidirectional switching and phase control applications. The JST08E-800SW is designed for high performance full-wave AC control applications where high noise immunity and high commutating di/dt are required. This device is intended for interfacing with low power drivers, such as those found in control systems for home appliances, lighting systems, static switching relays, and other power switching applications. Its sensitive gate allows for control of loads directly with microprocessor and other logic circuits. The I/O portion of these devices consists of a PNP silicon bidirectional junction. The TO-263 is an economical, reliable means for surface mounting.

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 (Tj=25℃)	V_{DRM}	800	V
Repetitive peak reverse voltage (Tj=25℃)	V_{RRM}	800	V
RMS on-state current (TC=107℃)	$I_{T(RMS)}$	8	A
Non repetitive surge peak on-state current (full cycle, tp=20ms, Tj=25℃)	I_{TSM}	80	A
Non repetitive surge peak on-state current (full cycle, tp=16.6ms, Tj=25℃)		88	

ORDERING INFORMATION



MARKING

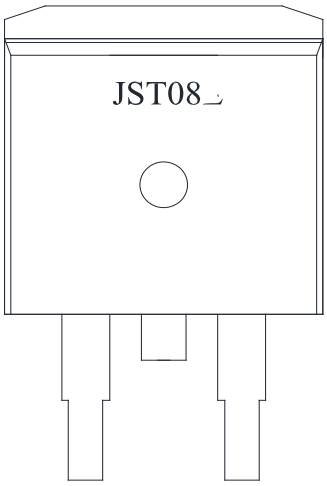
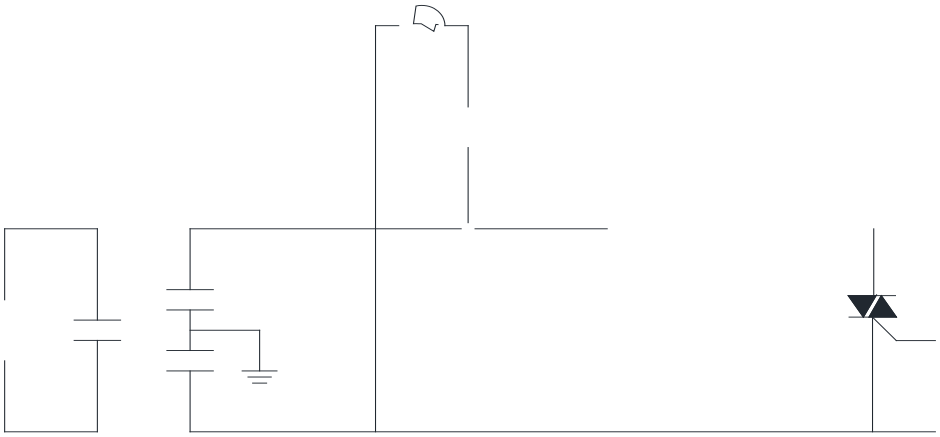


FIG.1:

FIG.7: Recommended pad design and soldering profile

E8 eT b b d d e d b E-61000-4-5 d

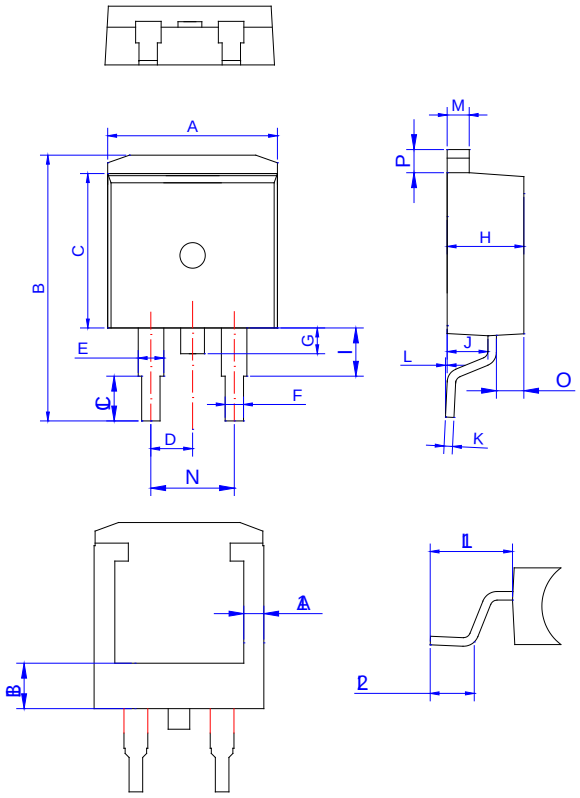


ORDERING INFORMATION

Order code	Voltage V_{DRM}/V_{RRM} (V)	IGT(mA)	Package	Base qty. (pcs)	Delivery mode
		- -			
JST08E-800SW	800	10	TO-263	50	Tube
JST08E-800SW-TR				800	Tape & Reel

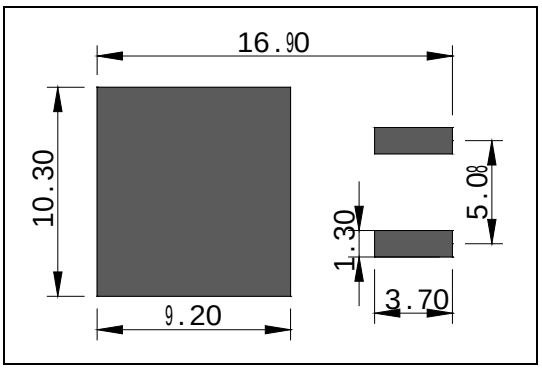
Document Revision History

PACKAGE MECHANICAL DATA

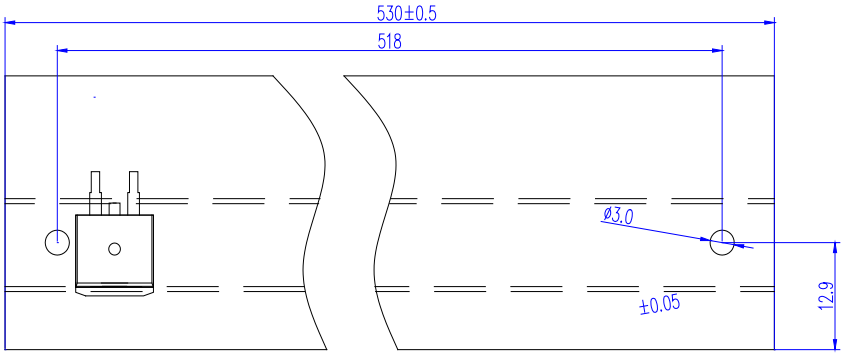


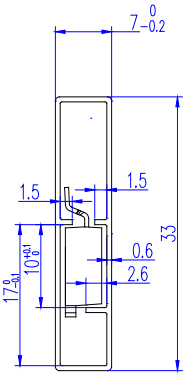
REF	Dimensions					
	Millimeters			Inches		
	Min	Typ	Max	Min	Typ	Max
A	9.90		10.20	0.390		0.402
A1	0.80		1.20	0.031		0.047
B	14.70		15.80	0.579		0.622
B1	2.15		2.55	0.085		0.100
C	9.40		9.60	0.370		0.378
C1	2.40		2.80	0.094		0.110
D	2.40		2.70	0.094		0.106
E	1.20		1.50	0.047		0.059
F	0.75		0.85	0.029		0.033
G	1.00		1.50	0.039		0.059
H	4.40		4.70	0.173		0.185
I	1.80		2.20			
J	2.30		2.70	0.091		0.106
K	0.38		0.55	0.015		0.022
L	0	0.10	0.25	0	0.004	0.010
L1	4.65		5.05	0.183		0.199
P1	1.90			0.075		
M	1.25		1.35	0.049		0.053
N	4.80		5.20			
O	1.30		1.50			
P	1.20		1.50	0.047		0.059

FOOTPRINT-TO-263 (dimensions in mm)



DELIVERY MODE





PACKAGE	

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