## JST08E-800SW 8A TRIAC

Rev.A.1.1

## DESCRIPTION:

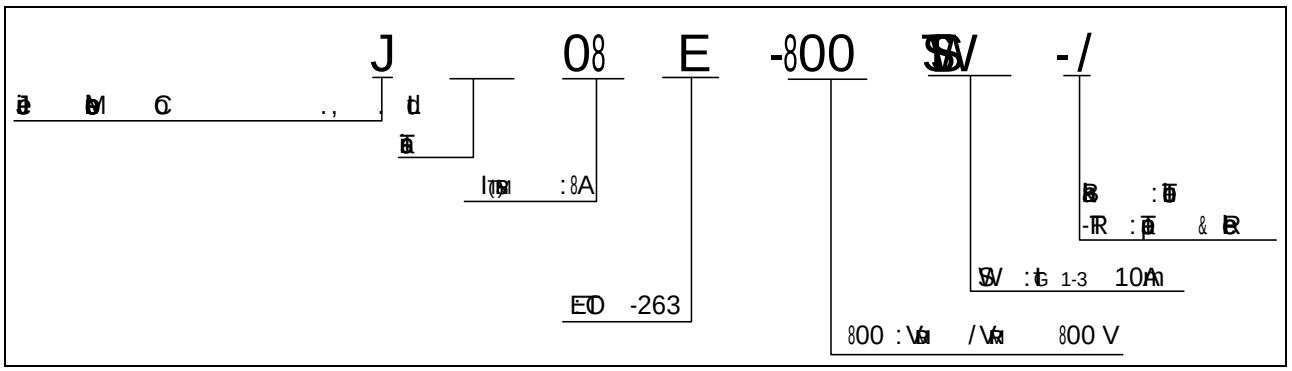
The JST08E-800SW is the high performance glass passivated PNP silicon rectifiers in Surface Mount Power Package. Use in general purpose bidirectional switching and phase control applications. The JST08E-800SW is designed for high performance full-wave AC control applications where high noise immunity 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

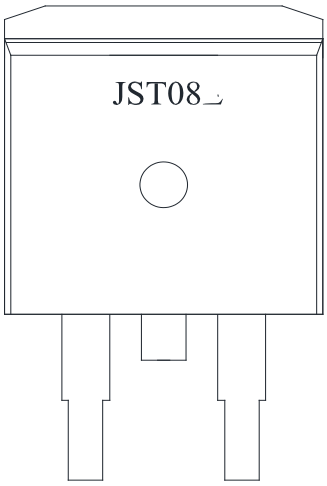
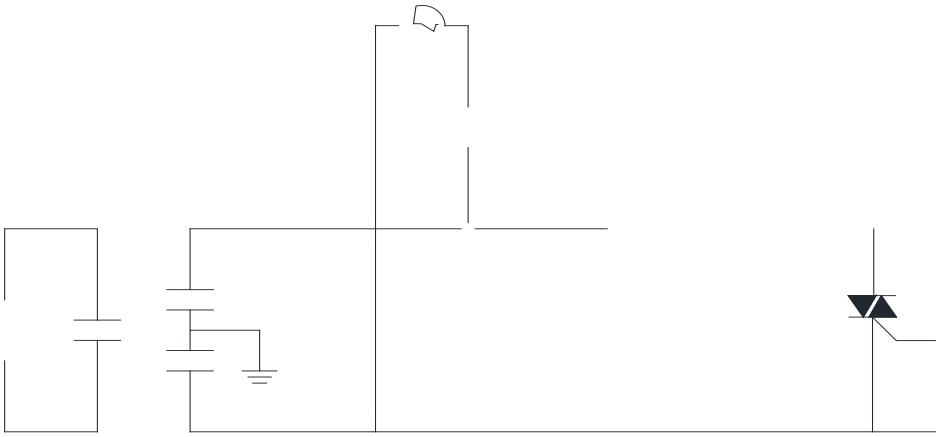


**FIG.1:**

FIG.7: Recommended pad design and soldering profile

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

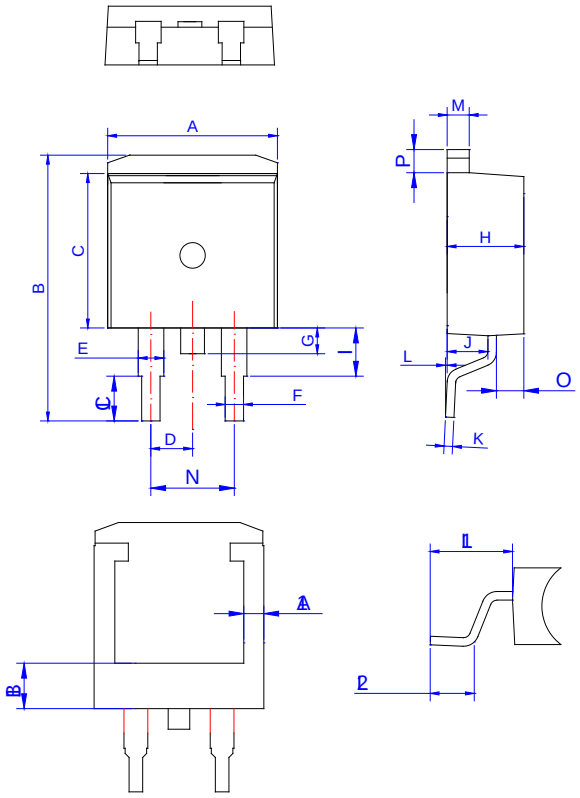


## ORDERING INFORMATION

| 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 |

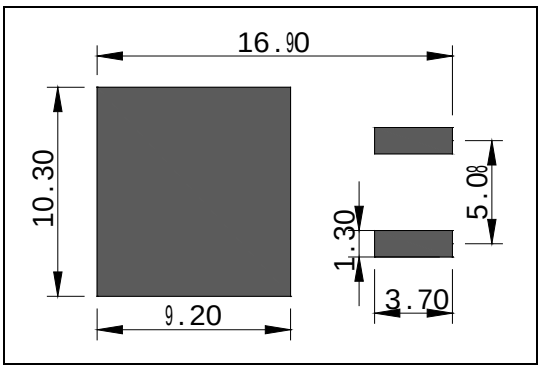
**Document Revision History**

## PACKAGE MECHANICAL DATA

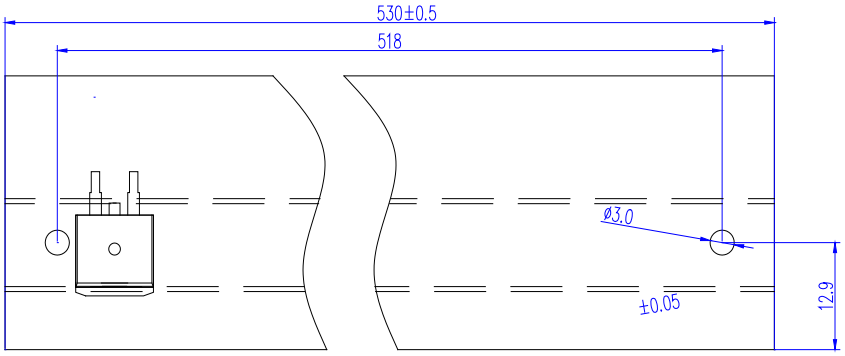


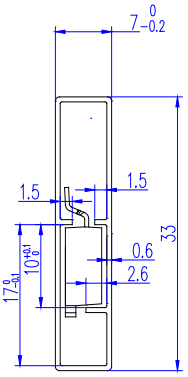

| REF | Dimensions | | | | | |
|---|---|---|---|---|---|---|
| | Millimeters | | | Inches | | |
| | Min | Typ | Max | Min | Typ | Max |
| A | 9.90 | | 10.20 | 0.390 | | 0.402 |
| A1 | 0.80 | | 1.20 | 0.031 | | 0.047 |
| B | 14.70 | | 15.80 | 0.579 | | 0.622 |
| B1 | 2.15 | | 2.55 | 0.085 | | 0.100 |
| 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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