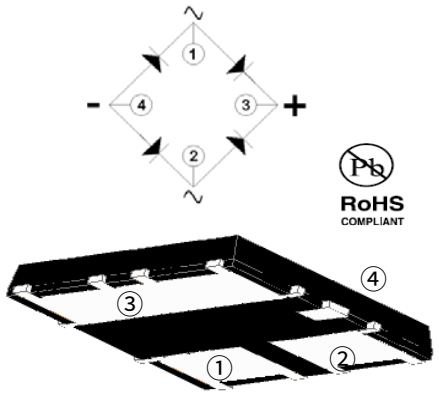
# E9336R

Low Profile Surface Mount Single Phase Bridge Rectifiers
Reverse Voltage 800V  Output Current 3A

## Features

- Low forward voltage drop
- Low leakage current
- Solder dip 260 °C, 10 s
- Ideal for automated placement
- Glass passivated fast recovery bridge rectifiers
- Moisture sensitivity: level 1, per J-STD-020
- Low profile，Typical Height 1.3mm




## Typical Applications

For use of general purpose AC to DC bridge rectification in power supply，charger，office appliance，home appliance and telecome device.

## Maximum Ratings (TA = 25 °C unless otherwise noted)

| Parameter | Symbol | E9336R | Unit |
|---|---|---|---|
| Maximum repetitive peak reverse voltage | VRRM | 800 | V |
| Maximum RMS voltage | VRMS | 560 | V |
| Maximum DC blocking voltage | VDC | 800 | V |
| Maximum average output rectified current | Io(AV) | 3.0 | A |
| Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load | IFSM | 85 | A |
| Rating for fusing(t<8.3ms) | $I^2t$ | 30.0 | $A^2sec$ |
| Operating junction and storage temperature range | TJ, TSTG | - 55 to + 150 | °C |

## Electrical Characteristics (TA = 25 °C unless otherwise noted)

| Parameter | Test Conditions | Symbol | E9336R | Unit |
|---|---|---|---|---|
| Maximum instantaneous forward voltage | IF=1.5 A, TA=25℃ | $V_F$ | 1.1 | Volts |
| Maximum DC reverse current at rated DC blocking voltage | TA=25°C<br>TA=125°C | $I_R$ | 5<br>250 | μA |
| Typical reverse recovery time | $I_F$=0.5A,$I_R$=1.0 $I_{rr}$=0.25A | $t_{rr}$ | 250 | nS |
| Typical junction capacitance(1) | | $C_J$ | 23.0 | pF |

## Thermal Characteristics

| Parameter | Symbol | E9336R | Unit |
|---|---|---|---|
| Typical thermal resistance(2) | $R_{\theta JA}$ | TBD | °C/W |
| | $R_{\theta JC}$ | TBD | |

Notes:
1. Measured at 1.0MHz and applied reverse voltage of 4.0 D.C.
2. On glass epoxy PCB, mounted recommended copper pad areas

## Ratings and Characteristics Curves

(TA = 25℃ unless otherwise noted)

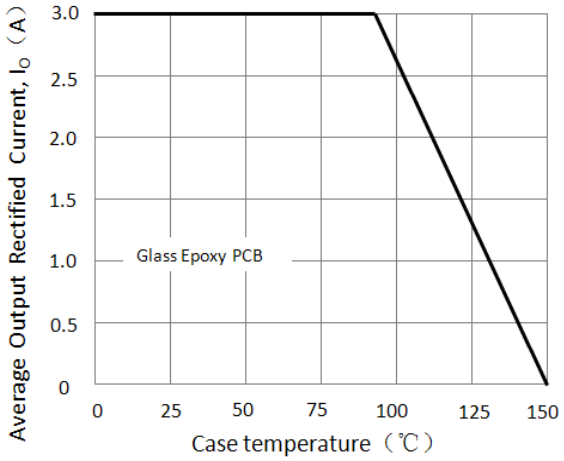



Figure 1.Output Rectifier Current Derating Curve

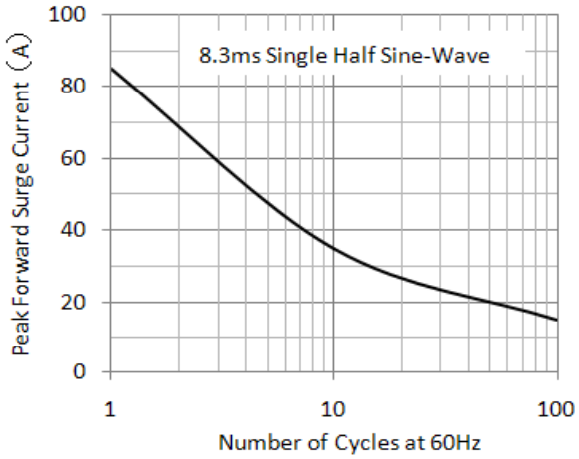



Figure 2.Maximum Non-Repetitive Peak Forward Surge Current

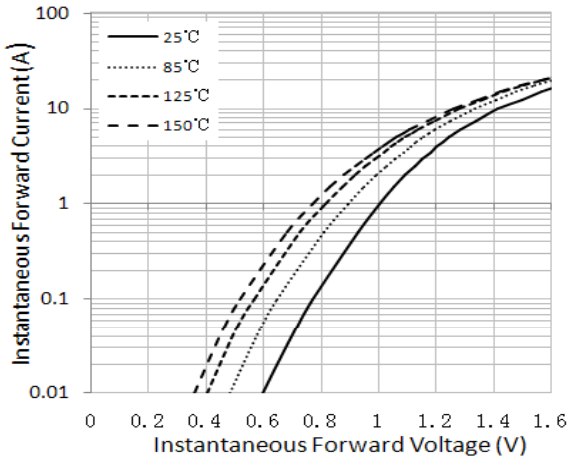



Figure 3. Typical Forward Characteristics

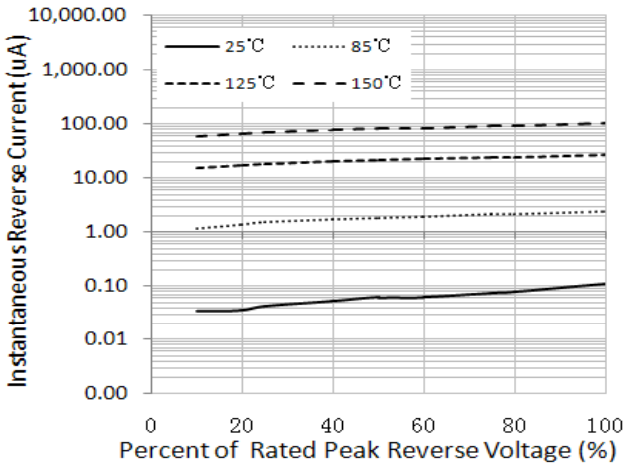



Figure 4. Typical Reverse Characteristics

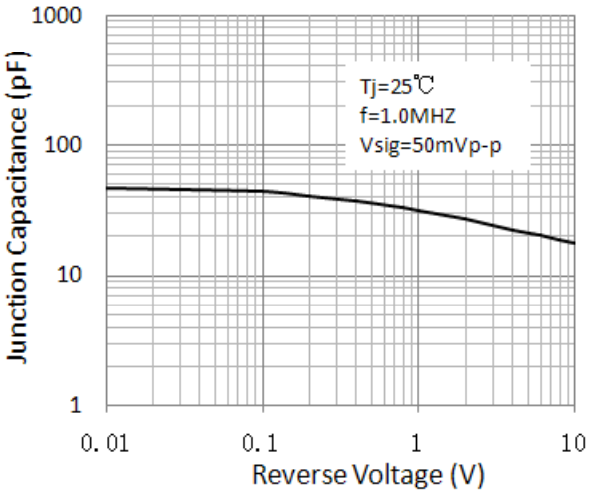
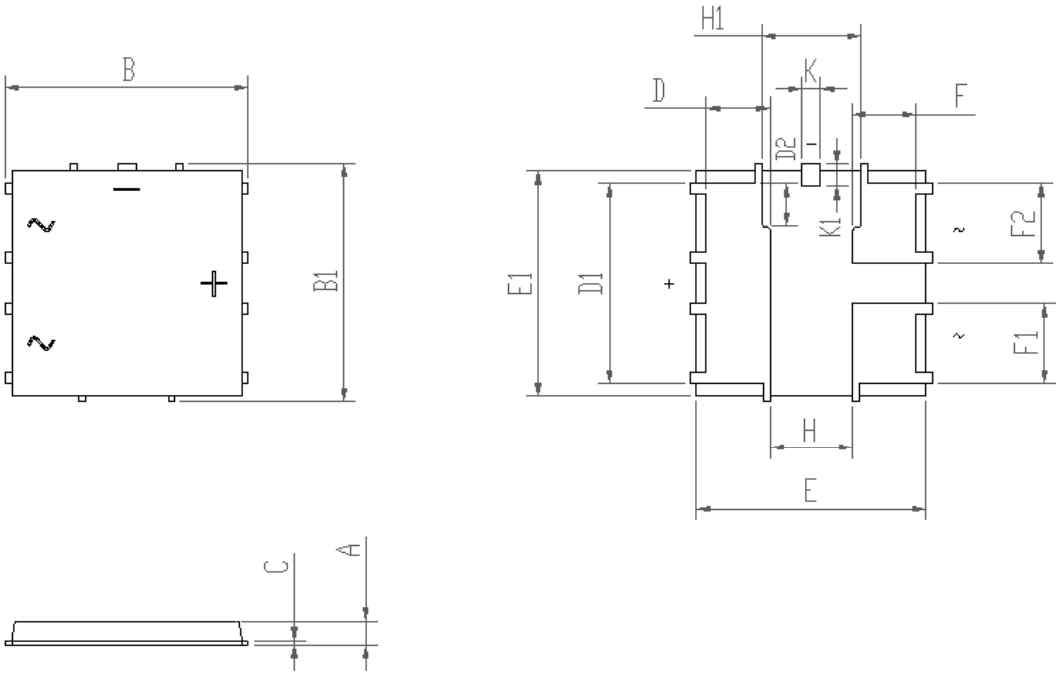



Figure 5. Typical Junction Capacitance

## Package Outline Dimensions

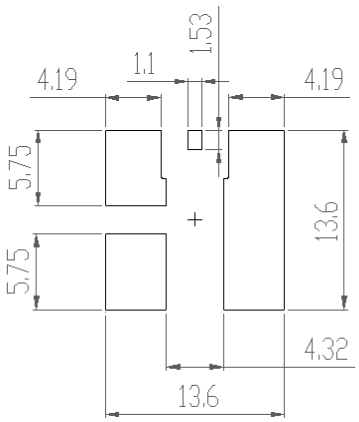
unit:mm

| Dim | Min | Max | Dim | Min | Max |
|---|---|---|---|---|---|
| A | 1.15 | 1.45 | F | 3.21 | 3.61 |
| B | 12.75 | 13.25 | F1 | 4.26 | 4.66 |
| B1 | 12.75 | 13.25 | F2 | 4.16 | 4.56 |
| C | 0.20 | 0.40 | H | 4.22 | 4.62 |
| D | 3.20 | 3.60 | H1 | 5 | 5.4 |
| D1 | 10.70 | 11.10 | K | 0.85 | 1.15 |
| E | 12.15 | 12.45 | K1 | 1.03 | 1.43 |
| E1 | 12.05 | 12.35 | D2 | 2.09 | 2.59 |




## Soldering Footprint

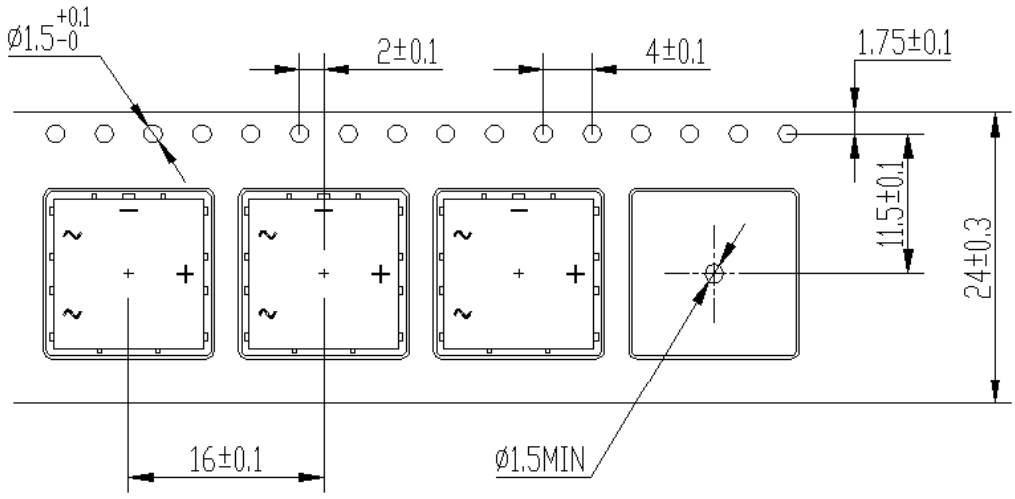
unit:mm



## Packing information

**Packing quantity**
2000 pcs/Reel,  13"Reel

**Packing tape specification**
unit:mm



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