

Features

- General rectification
- Low V_F ; Low I_R
- High reliability

Applications

- surface mount schottky barrier rectifier

Ordering Information

- Shipping Qty:3000/7inch Tape& Reel



SOD323HE

| PIN | DESCRIPTION |
|-----|-------------|
| 1 | Cathode |
| 2 | Anode |



Marking:110

Maximum Ratings (@ $T_A = 25^\circ\text{C}$ unless otherwise specified)

| Parameter | Symbol | | Unit |
|--|-------------|-----|------|
| Peak Repetitive Reverse Voltage | V_{RRM} | 100 | V |
| RMS Reverse Voltage | V_{RMS} | 70 | V |
| DC Blocking Voltage | V_{DC} | 100 | V |
| Average Forward Output Current | I_{F_AV} | 1.0 | A |
| Peak Forward Surge Current, 8.3ms Single Half Sine wave | I_{FSM} | 30 | A |

Thermal Characteristics

| Parameter | Symbol | | Unit |
|--------------------------------------|-----------------|------------|--------------------|
| Typical Thermal Resistance ** | $R_{\theta JA}$ | 110 | $^\circ\text{C/W}$ |
| | $R_{\theta JC}$ | 40 | |
| Operating Junction Temperature Range | T_J | -55 ~ +125 | $^\circ\text{C}$ |
| Storage Temperature Range | T_{STG} | -55 ~ +150 | $^\circ\text{C}$ |

Electrical Characteristics (@ $T_A = 25^\circ\text{C}$ unless otherwise specified)

| Parameter | Symbol | Test Conditions | | Typ. | Max. | Unit |
|---|--------|---------------------|-----------------------------|------|------|------|
| Instantaneous Forward Voltage ^{*1} | V_F | $I_F = 1.0\text{A}$ | @ $T_A = 25^\circ\text{C}$ | - | 0.85 | V |
| Maximum DC reverse current at rated DC blocking voltage $T_A = 25^\circ\text{C}$ $T_j = 125^\circ\text{C}$ | I_R | Rated V_R | @ $T_J = 25^\circ\text{C}$ | - | 0.5 | mA |
| | | | @ $T_J = 100^\circ\text{C}$ | - | 10 | mA |
| Typical junction capacitance at 4.0V, 1MHz | C_J | | | 160 | | pF |

Ratings and Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

Fig. 1 - Forward Current Derating Curve

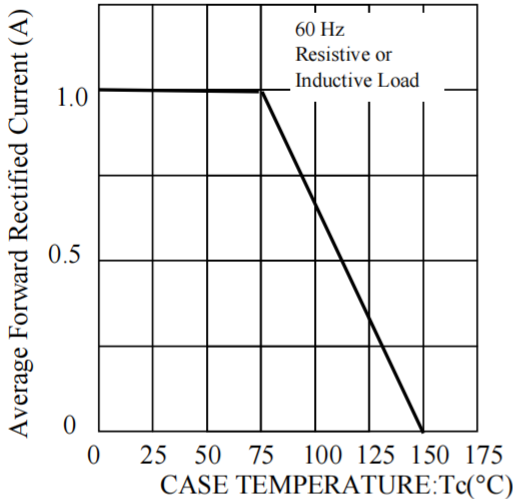


Fig. 2 - Maximum Non-repetitive Peak Forward Surge Current

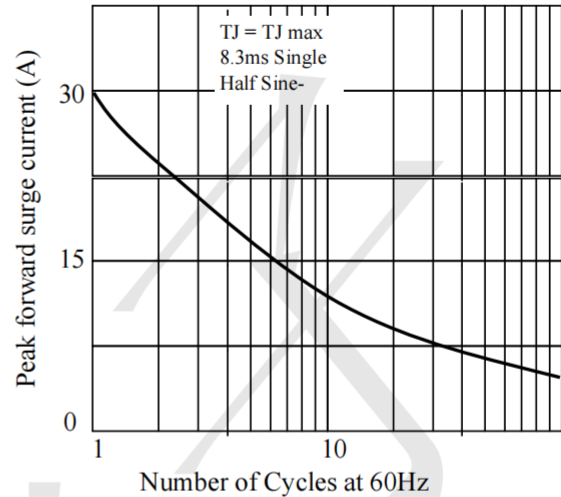


Fig. 3 - Typical Instantaneous Forward Characteristics

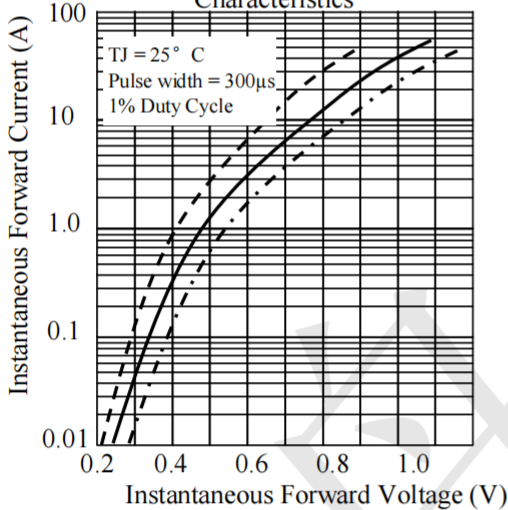


Fig. 4 - Typical Reverse Characteristics

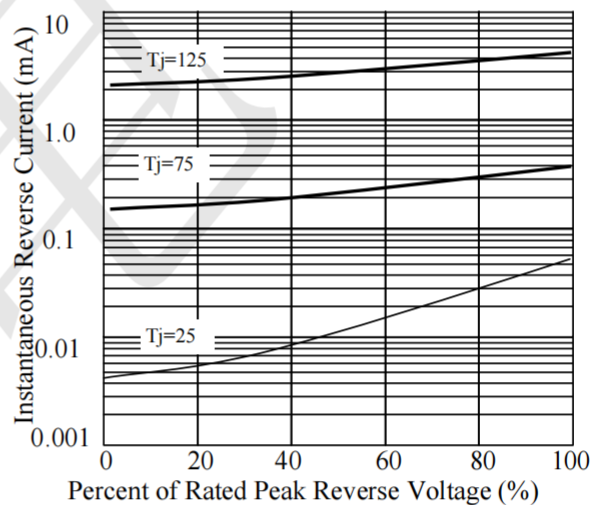


Fig. 5 - typical transient thermal impedance

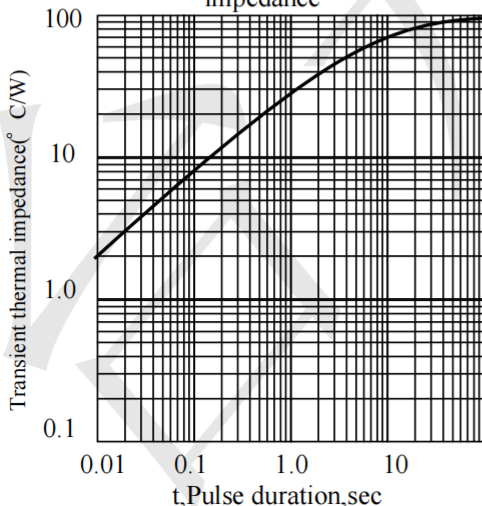
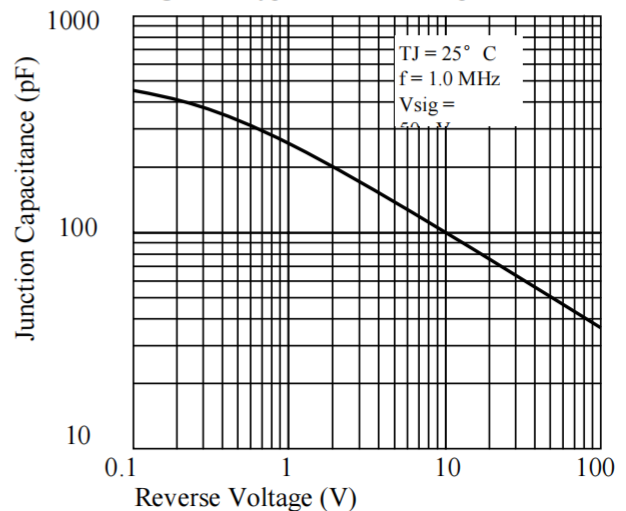
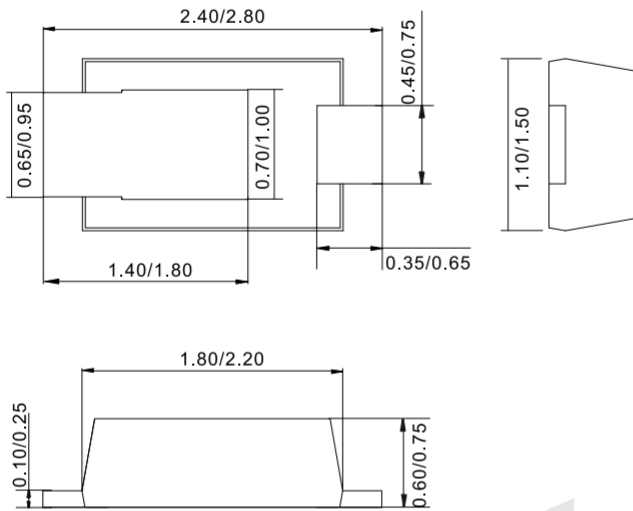


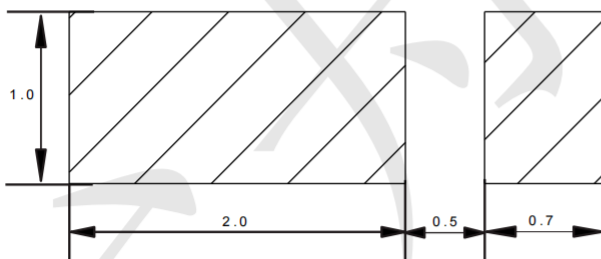
Fig. 6 - Typical Junction Capacitance



Outline Drawing - SOD323HE (unit: mm)



Mounting Pad Layout-SOD323HE (unit: mm)



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