

### 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

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



SOD323HE



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

| Parameter                                                  | Symbol      |     | Unit |
|------------------------------------------------------------|-------------|-----|------|
| Peak Repetitive Reverse Voltage                            | $V_{RRM}$   | 40  | V    |
| RMS Reverse Voltage                                        | $V_{RMS}$   | 28  | V    |
| DC Blocking Voltage                                        | $V_{DC}$    | 40  | V    |
| Average Forward Output Current                             | $I_{F\_AV}$ | 1.0 | A    |
| Peak Forward Surge Current,<br>8.3ms Single Half Sine wave | $I_{FSM}$   | 30  | A    |

### Thermal Characteristics

| Parameter                            | Symbol          |            | Unit               |
|--------------------------------------|-----------------|------------|--------------------|
| Typical Thermal Resistance *1        | $R_{\theta JA}$ | 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 | $V_F$  | $I_F = 1.0\text{A}$ | @ $T_A = 25^\circ\text{C}$  | -    | 0.55 | V    |
| Reverse Current*2               | $I_R$  | Rated $V_R$         | @ $T_J = 25^\circ\text{C}$  | -    | 0.5  | mA   |
|                                 |        |                     | @ $T_J = 100^\circ\text{C}$ | -    | 10   | mA   |

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

Fig. 1 - Forward Current Derating Curve

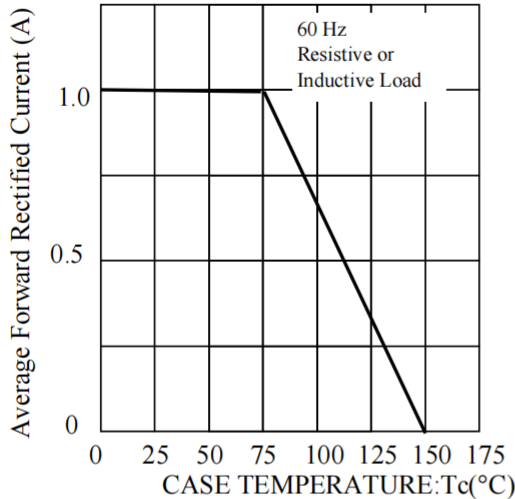


Fig. 2 - Maximum Non-repetitive Peak Forward Surge Current

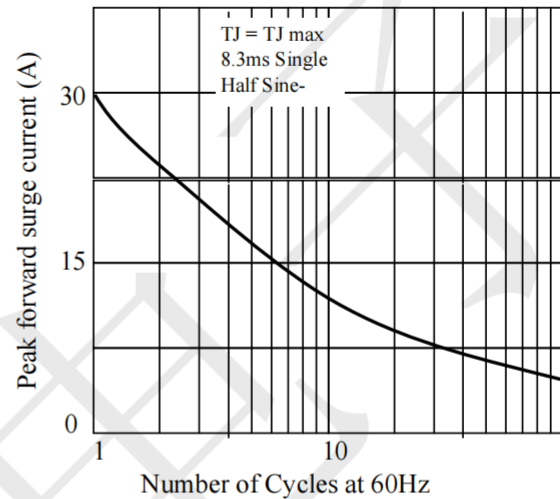


Fig. 3 - Typical Instantaneous Forward Characteristics

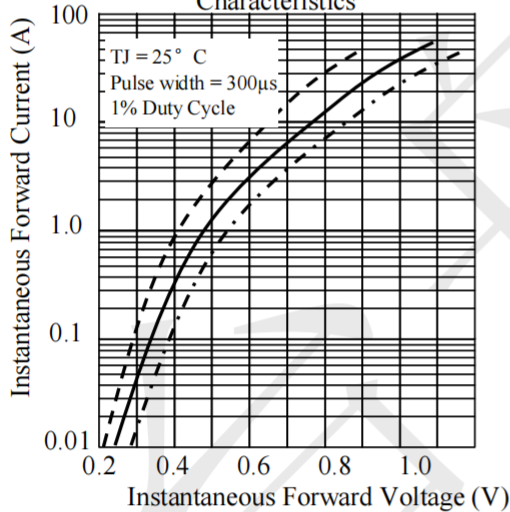


Fig. 4 - Typical Reverse Characteristics

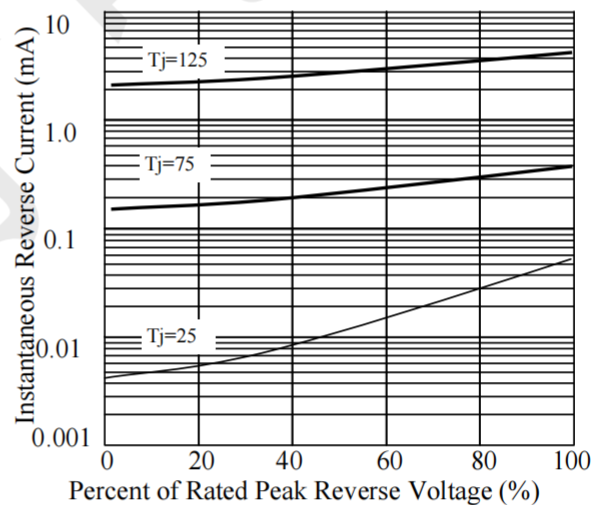


Fig. 5 - typical transient thermal impedance

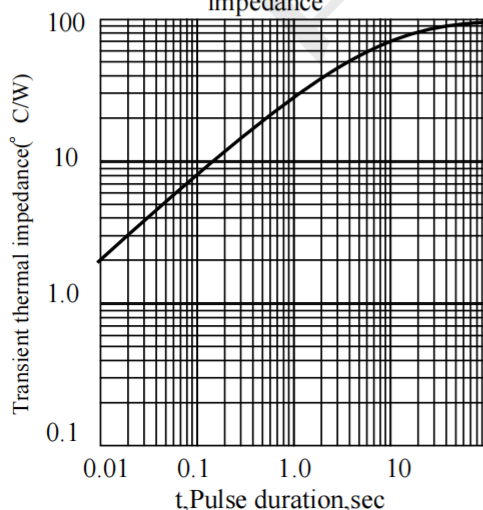
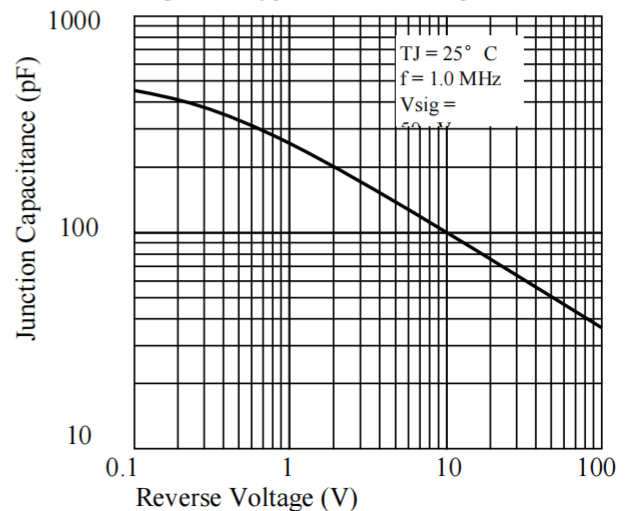
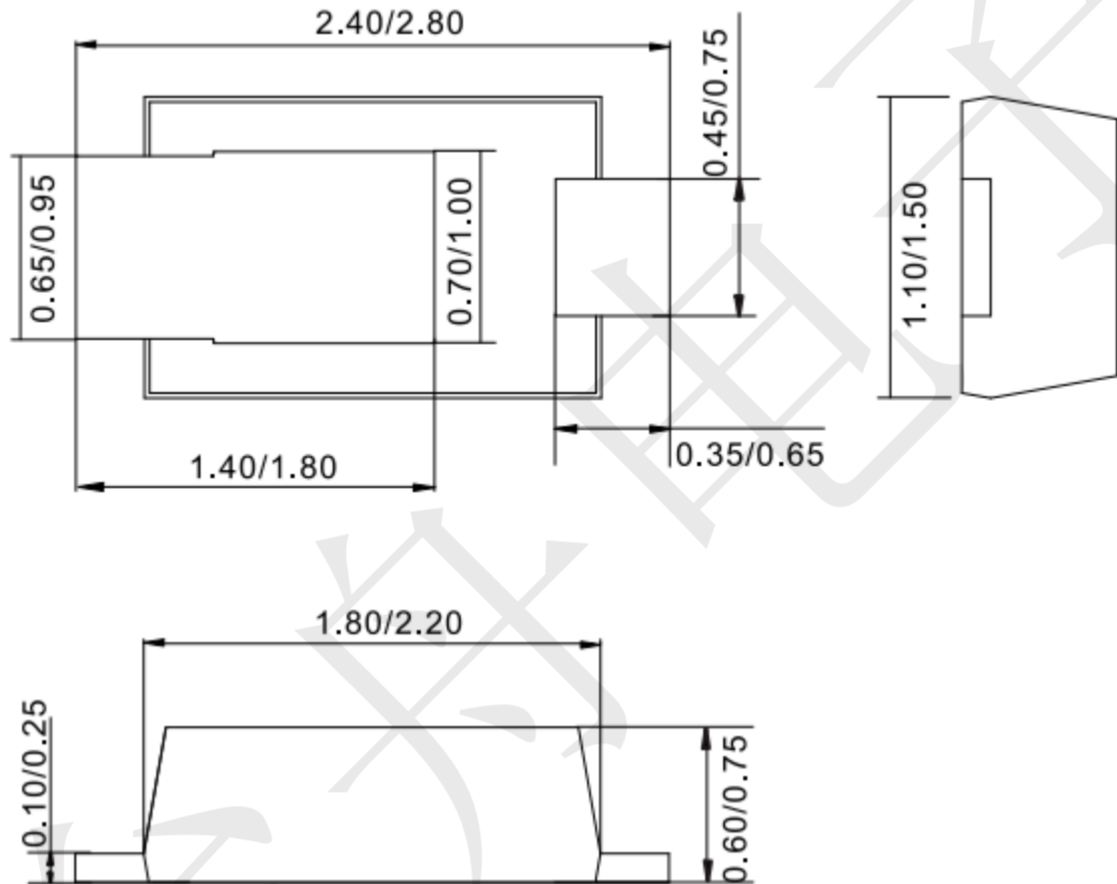


Fig. 6 - Typical Junction Capacitance



**Package information (Unit: mm)**

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**Mounting Pad Layout (Unit: mm)**

