

### **Features**

- Average Forward Current:I<sub>F(AV)</sub>=0.38A
- Low Forward Voltage

## **Package Marking and Ordering Information**

| Product ID  | Pack           | Marking | Qty(PCS) |
|-------------|----------------|---------|----------|
| 1SS315TPH3F | SOD-323(SC-76) | E4      | 3000     |





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

| Parameter  | Symbol             | Value         | Unit |
|--|--------------------|---------------|------|
| Peak Repetitive Reverse Voltage                      | $V_{RRM}$          | 40            | V    |
| Reverse Voltage                                      | V <sub>R</sub>     | 40            | V    |
| Average Forward Rectified Current                    | I <sub>F(AV)</sub> | 380           | mA   |
| Non-Repetitive Peak Forward Surge Current at t = 1 s | I <sub>FSM</sub>   | 2             | А    |
| Power Dissipation                                    | P <sub>tot</sub>   | 200           | mW   |
| Operating and Storage Temperature Range              | $T_{j},T_{stg}$    | - 65 to + 125 | °C   |

## **Electrical Characteristics(Ta=25°C unless otherwise specified)**

| Parameter  | Symbol             | Min. | Тур. | Max.        | Unit |
|--|--------------------|------|------|-------------|------|
| Reverse Breakdown Voltage<br>at I <sub>R</sub> = 10ÿA                                      | V <sub>(BR)R</sub> | 40   | -    | -           | V    |
| Reverse Leakage Current at $V_R = 30 \text{ V}$  | I <sub>R</sub>     | -    | -    | 5           | μA   |
| Forward Voltage at $I_F = 20 \text{ mA}$ at $I_F = 200 \text{ mA}$                         | V <sub>F</sub>     | 1 1  | 1 1  | 0.37<br>0.6 | V    |
| Total Capacitance at $V_R = 0 \text{ V}$ , $f = 1 \text{ MHz}$                             | Ст                 | -    | 50   | -           | pF   |
| Reverse Recovery Time at $I_F = I_R = 200$ mA, $I_{rr} = 0.1$ $I_R$ , $R_L = 100$ $\Omega$ | t <sub>rr</sub>    | -    | 10   | -           | ns   |



# **Typical Characteristics**

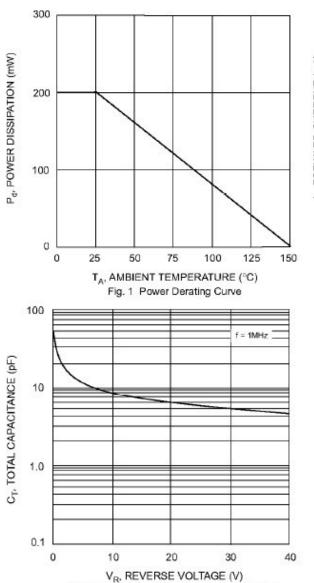
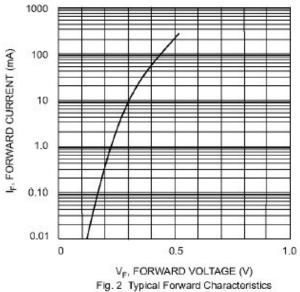


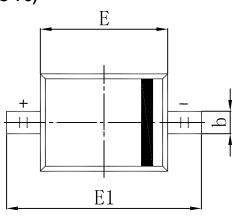
Fig. 3 Total Capacitance vs Reverse Voltage

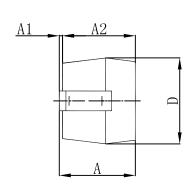


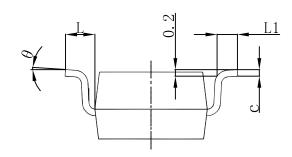


# **Package Outline Dimensions**

SOD-323(SC-76)







| Symbol | Dimensions In Millimeters |       | Dimensions In Inches |       |  |
|--------|---------------------------|-------|----------------------|-------|--|
|        | Min                       | Max   | Min                  | Max   |  |
| Α      |                           | 1.100 |                      | 0.043 |  |
| A1     | 0.000                     | 0.100 | 0.000                | 0.004 |  |
| A2     | 0.800                     | 1.000 | 0.031                | 0.039 |  |
| b      | 0.250                     | 0.350 | 0.010                | 0.014 |  |
| С      | 0.080                     | 0.150 | 0.003                | 0.006 |  |
| D      | 1.200                     | 1.400 | 0.047                | 0.055 |  |
| Е      | 1.600                     | 1.800 | 0.063                | 0.071 |  |
| E1     | 2.500                     | 2.750 | 0.098                | 0.108 |  |
| L      | 0.475 REF                 |       | 0.019 REF            |       |  |
| L1     | 0.250                     | 0.400 | 0.010                | 0.016 |  |
| θ      | 0°                        | 8°    | 0°                   | 8°    |  |



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