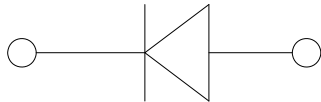


## Schottky Rectifier



### Features

- $V_R$  40V
- $I_{FAV}$  0.5A
- For Surface Mount Application
- Moisture Sensitivity Level 1

### Mechanical Data

- **Package:** SOD-323
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end
- **Marking:** 4

### ■ Maximum Ratings (Ta=25°C Unless otherwise specified)

| PARAMETER                                 | SYMBOL    | UNIT | Conditions       | VALUE       |
|-------------------------------------------|-----------|------|------------------|-------------|
| Repetitive peak reverse voltage           | $V_{RRM}$ | V    |                  | 40          |
| Reverse Voltage                           | $V_R$     | V    |                  | 40          |
| Non-Repetitive Peak Forward Surge Current | $I_{FSM}$ | A    | 8.3ms, half sine | 5.5         |
| Average forward current                   | $I_{FAV}$ | A    |                  | 0.5         |
| Power dissipation                         | $P_D$     | mW   |                  | 250         |
| Junction temperature                      | $T_J$     | °C   |                  | -55 to +125 |
| Storage temperature range                 | $T_{stg}$ | °C   |                  | -55 to +150 |

### ■ Electrical Characteristics (Ta=25°C Unless otherwise specified)

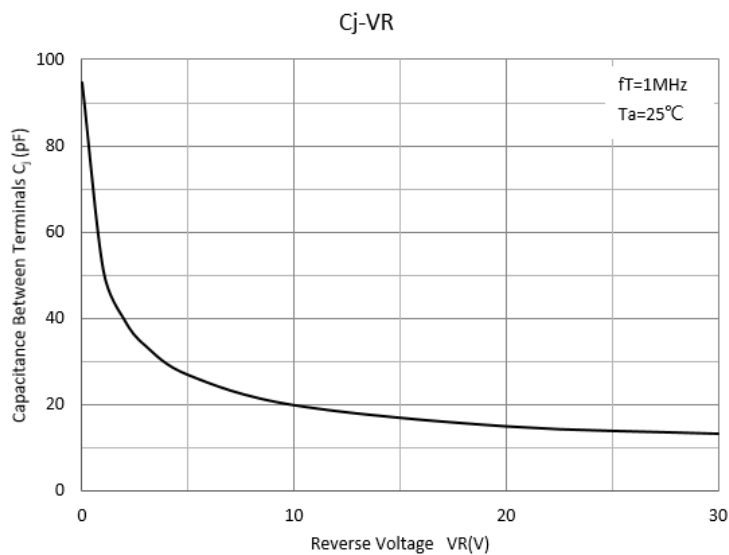
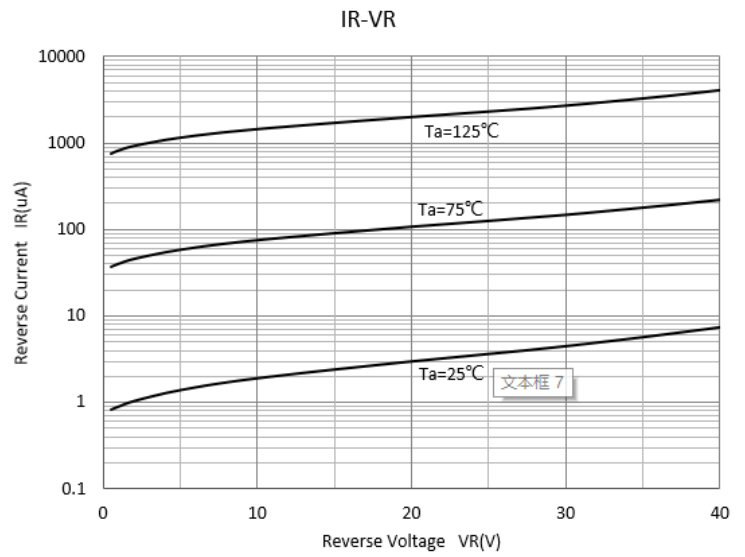
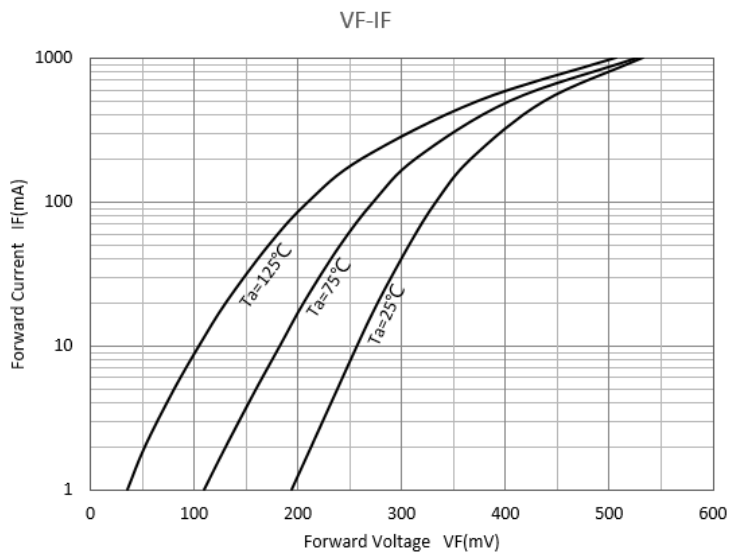
| PARAMETER                    | Symbol | UNIT    | Conditions                 | Min | Typ | Max  |
|------------------------------|--------|---------|----------------------------|-----|-----|------|
| Breakdown Voltage            | $V_R$  | V       | $I_R=20\mu A$              | 40  |     |      |
| Forward Voltage              | $V_F$  | V       | $I_F=0.5A, T_A=25^\circ C$ |     |     | 0.55 |
| Reverse Leakage Current      | $I_R$  | $\mu A$ | $V_R=40V$                  |     |     | 80   |
| Typical Junction Capacitance | $C_J$  | pF      | $V_R=4V, f=1MHz$           |     |     | 30   |

### ■ Ordering Information (Example)

| PREFERED P/N | PACKING CODE | UNIT WEIGHT(g)    | MINIMUM PACKAGE(pcs) | INNER BOX QUANTITY(pcs) | OUTER CARTON QUANTITY(pcs) | DELIVERY MODE |
|--------------|--------------|-------------------|----------------------|-------------------------|----------------------------|---------------|
| B0540WS      | F2           | Approximate 0.004 | 3000                 | 30000                   | 120000                     | 7" reel       |

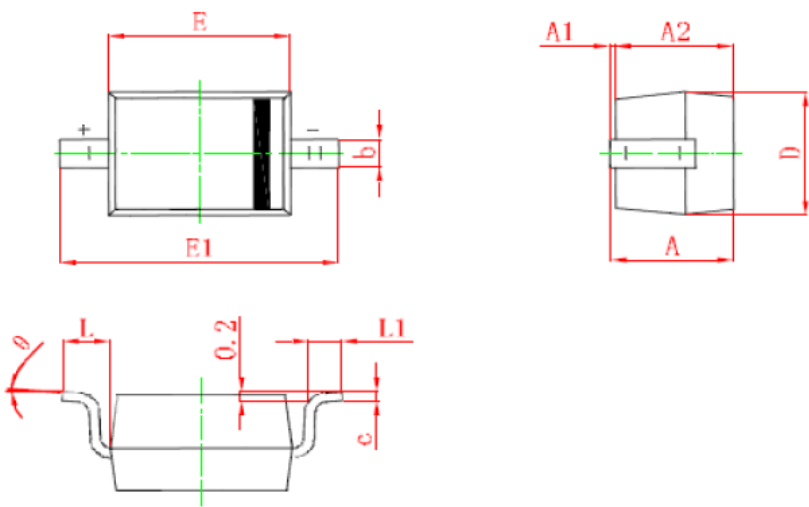


## ■ Characteristics (Typical)



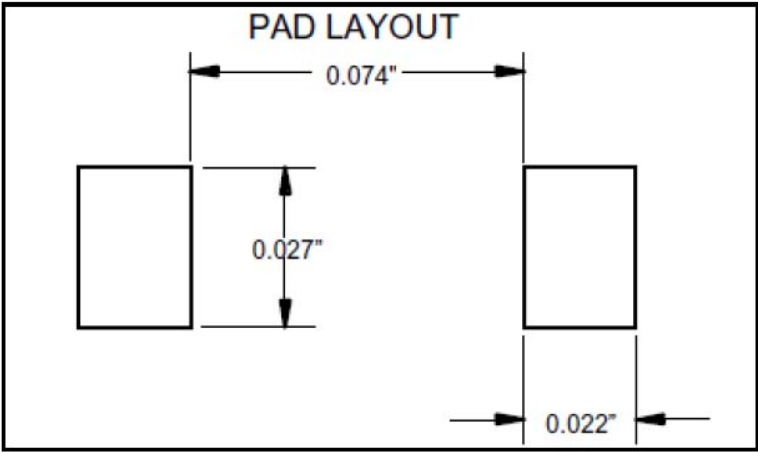


■ SOD-323 Package Outline Dimensions



| Symbol | Min. (mm) | Max. (mm) |
|--------|-----------|-----------|
| A      |           | 1.000     |
| A1     | 0.000     | 0.100     |
| A2     | 0.800     | 0.900     |
| b      | 0.250     | 0.400     |
| c      | 0.080     | 0.150     |
| D      | 1.200     | 1.400     |
| E      | 1.600     | 1.800     |
| E1     | 2.500     | 2.700     |
| L      | 0.475REF  |           |
| L1     | 0.250     | 0.400     |
| θ      | 0°        | 8°        |

■ SOD-323 Soldering Footprint



Unit: inches



### Disclaimer

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