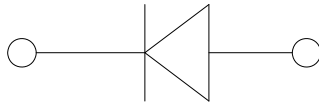




THE DATASHEET OF B0540WS



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)

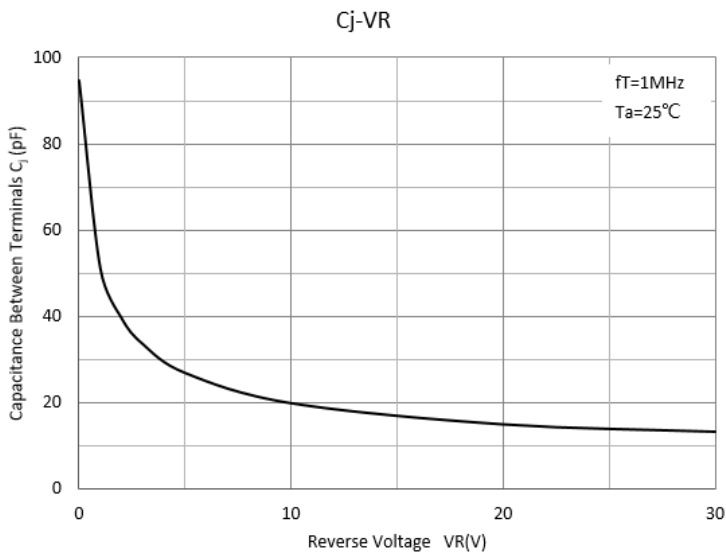
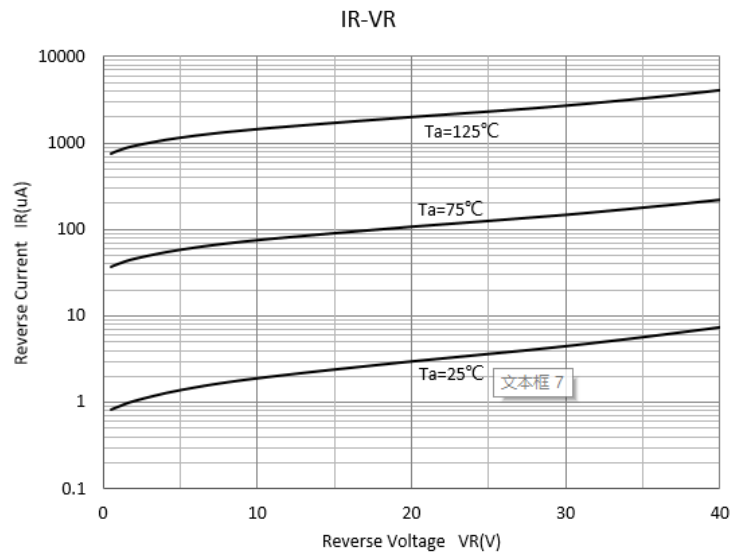
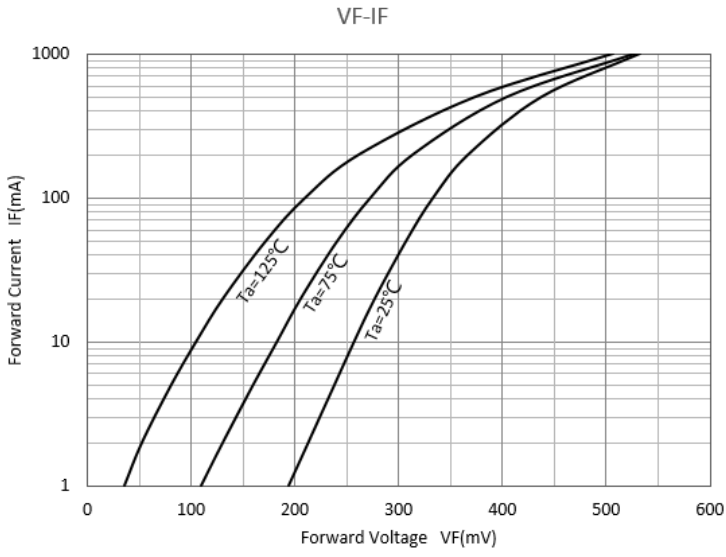
| PARAMETER | Symbol | UNIT | Conditions | Min | Typ | Max |
|------------------------------|--------|---------|----------------------------|-----|-----|------|
| Breakdown Voltage | V_R | V | $I_R=20\mu A$ | 40 | | |
| Forward Voltage | V_F | V | $I_F=0.5A, T_A=25^\circ C$ | | | 0.55 |
| Reverse Leakage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

■ Ordering Information (Example)

| PREFERRED 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 |



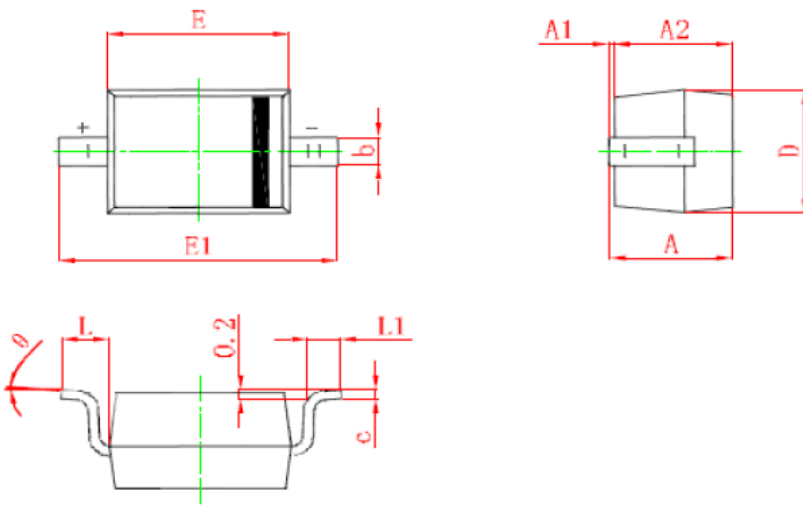
■ Characteristics (Typical)





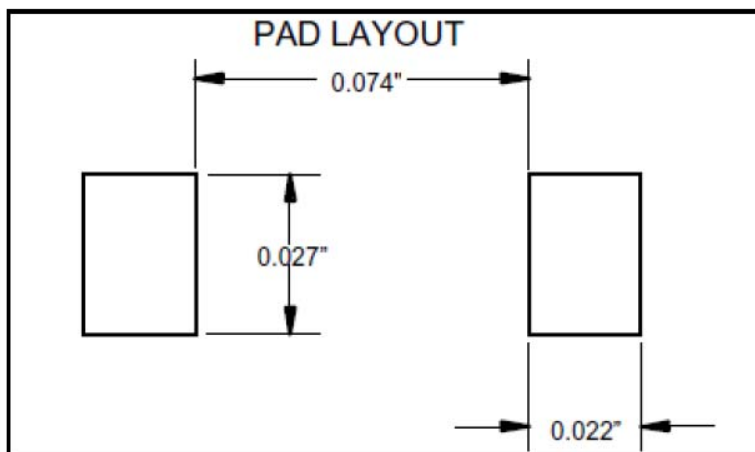
B0540WS

■ 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



B0540WS

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