

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Low Voltage, Low Inductance
- High Current Rectifier Schottky Diode
- For Power Supply
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 500°C/W Junction to Ambient

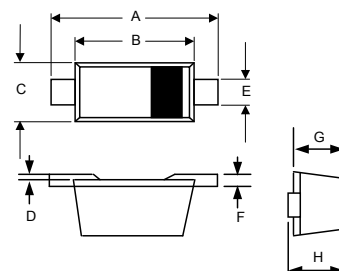
| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum DC Blocking Voltage |
|-----------------|----------------|--|-----------------------------|
| RB751S-40 | 5 | 40V | 30V |

Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|-------------------------------------|-----------|------------------|------------------|
| Mean Rectifying Current | I_O | 30mA | |
| Non-Repetitive Peak Forward Current | I_{FSM} | 500mA | $t=8.3ms$ |
| Forward Voltage | V_F | 0.37V(Max) | $I_F=1mA$; |
| Reverse Current | I_R | 0.5 μ A(Max) | $V_R = 30V$ |
| Capacitance Between Terminals | C_T | 2pF | $V_R=1V, f=1MHz$ |
| Power Dissipation | P_D | 200mW | |

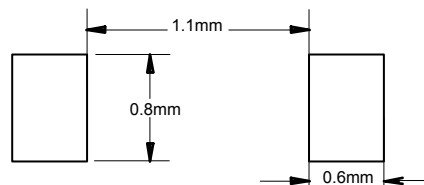
40 Volts Schottky Barrier Dioder

SOD-523



| DIM | INCHES | | MM | | NOTE |
|-----|--------|-------|------|------|------|
| | MIN | MAX | MIN | MAX | |
| A | 0.059 | 0.067 | 1.50 | 1.70 | |
| B | 0.043 | 0.051 | 1.10 | 1.30 | |
| C | 0.030 | 0.033 | 0.75 | 0.85 | |
| D | 0.001 | 0.003 | 0.01 | 0.07 | |
| E | 0.010 | 0.014 | 0.25 | 0.35 | |
| F | 0.003 | 0.006 | 0.08 | 0.15 | |
| G | 0.020 | 0.028 | 0.50 | 0.70 | |
| H | 0.020 | 0.031 | 0.51 | 0.77 | |

Suggested Solder Pad Layout



Curve Characteristics

Fig. 1 - Forward Characteristics

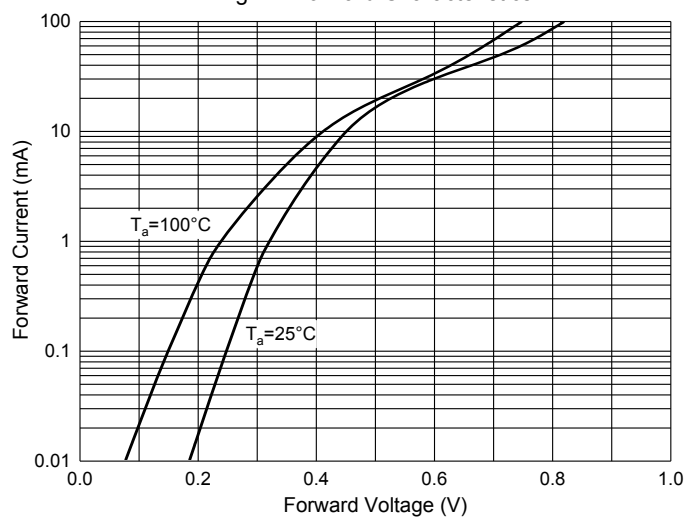


Fig. 2 - Reverse Characteristics

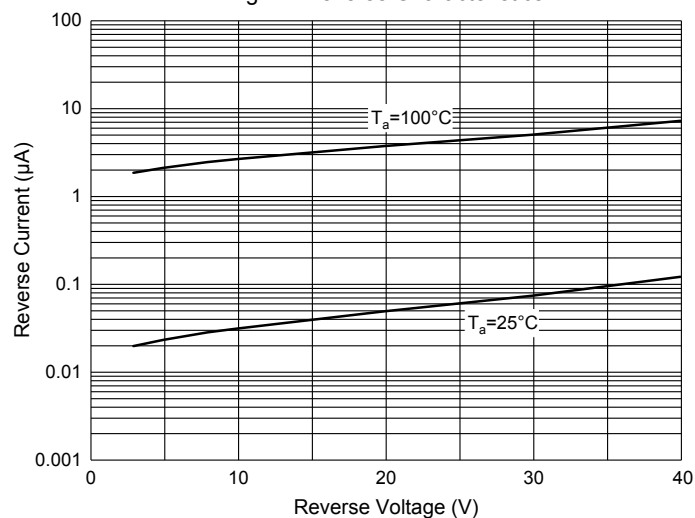


Fig. 3 - Capacitance Characteristics

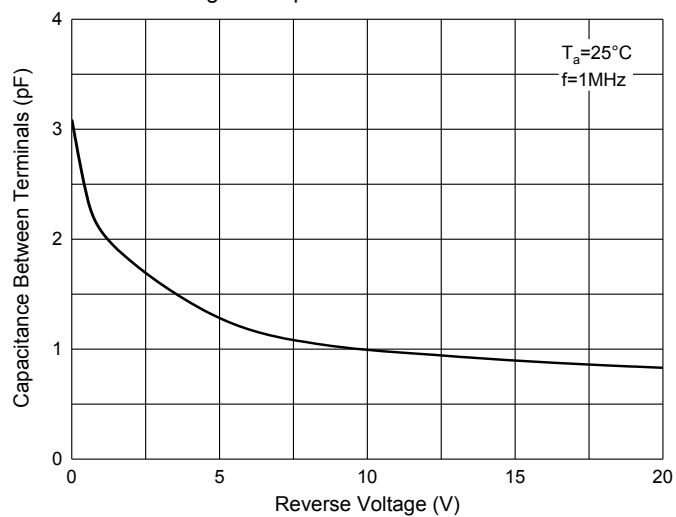
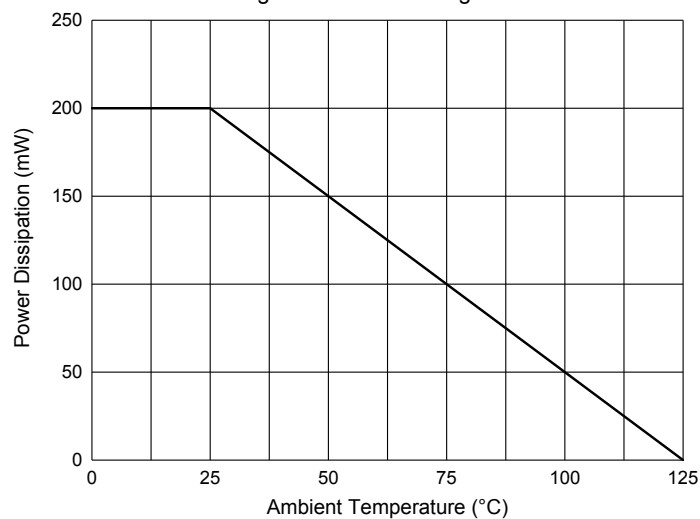


Fig. 4 - Power Derating Curve



Ordering Information

| Device | Packing |
|----------------|-----------------------|
| Part Number-TP | Tape&Reel: 8Kpcs/Reel |

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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