

Features

- Small Surface Mounting Type
- 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)
- Halogen Free. "Green" Device (Note 1)

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 1000°C/W Junction to Ambient

| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | RMS Reverse Voltage $V_R(RMS)$ | Maximum DC Blocking Voltage |
|-----------------|----------------|--|--------------------------------|-----------------------------|
| RB751S-40L2 | 51 | 40V | 28V | 40V |

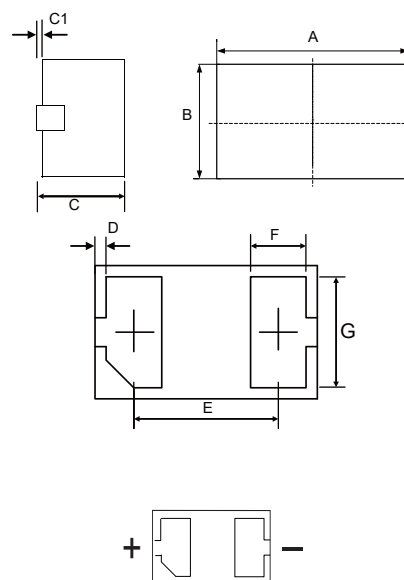
Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|----------------------------|-----------|------------------|------------|
| Mean Rectifying Current | I_O | 30mA | |
| Peak Forward Surge Current | I_{FSM} | 150mA | $t=8.3ms$ |
| Forward Voltage | V_F | 0.37V(Max) | $I_F=1mA;$ |
| Reverse Current | I_R | 0.5 μ A(Max) | $V_R=30V$ |

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

30 mA Schottky Rectifier 40 Volts

DFN1006-2L



DIMENSIONS

| DIM | INCHES | | MM | | NOTE |
|-----|----------|-------|---------|------|------|
| | MIN | MAX | MIN | MAX | |
| A | 0.037 | 0.041 | 0.95 | 1.05 | |
| B | 0.022 | 0.026 | 0.55 | 0.65 | |
| C | 0.016 | 0.020 | 0.40 | 0.50 | |
| C1 | ----- | 0.002 | ----- | 0.05 | |
| D | 0.001 | 0.003 | 0.02 | 0.08 | |
| E | 0.026BSC | | 0.65BSC | | |
| F | 0.008 | 0.012 | 0.20 | 0.30 | |
| G | 0.018 | 0.022 | 0.45 | 0.55 | |

Curve Characteristics

Fig. 1 - Forward Characteristics

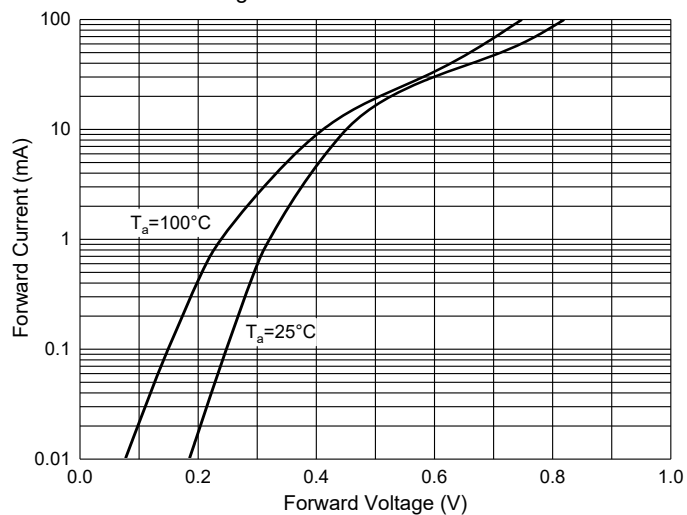


Fig. 2 - Reverse Characteristics

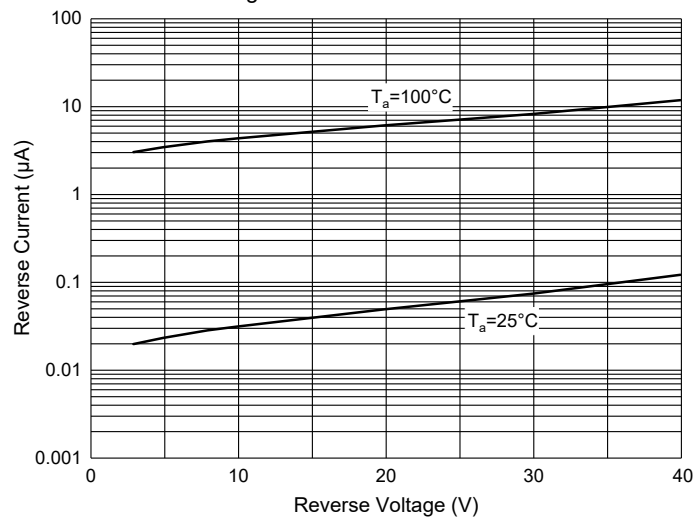


Fig. 3 - Capacitance Characteristics

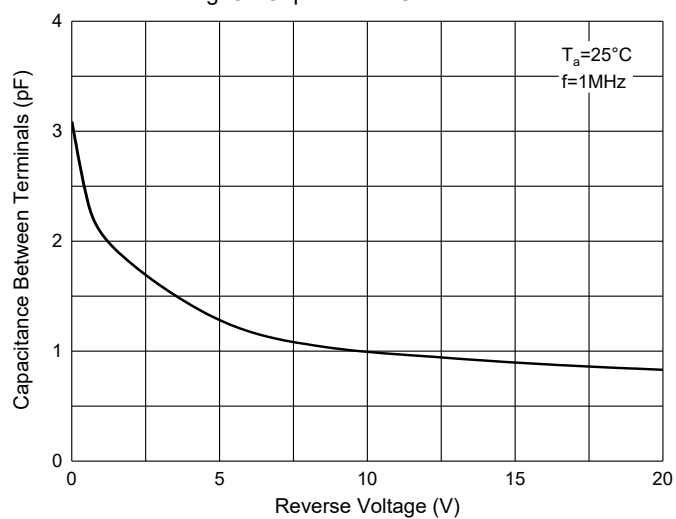
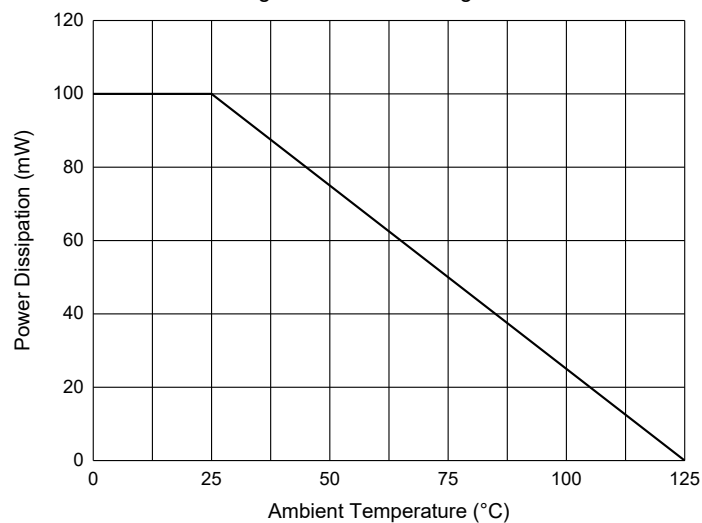


Fig. 4 - Power Derating Curve



Ordering Information

| Device | Packing |
|----------------|-----------------------|
| Part Number-TP | Tape&Reel;10Kpcs/Reel |

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