

Features

- Halogen Free. "Green" Device (Note 1)
- High Reliability
- Low Reverse Current And Low Forward Voltage
- Small Surface Mount Type
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

Maximum Ratings

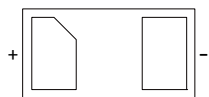
- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +125°C
- Thermal Resistance :1000°C/W Junction to Ambient

| Parameter | Symbol | Rating | Units |
|--|--------------|--------|-------|
| Repetitive Peak Reverse Voltage | V_R | 40 | Vdc |
| RMS Reverse Voltage | $V_{R(RMS)}$ | 28 | Vdc |
| Mean Rectifying Current | I_O | 30 | mAdc |
| Non-Repetitive Peak forward Surge Current@t=8.3ms , half sine wave | I_{FSM} | 200 | mAdc |
| Power Dissipation | P_d | 100 | mW |

Electrical Characteristics @ 25°C Unless Otherwise Specified

| Parameter | Symbol | Min | Typ | Max | Units |
|--|------------|-----|-----|------|-----------|
| Reverse Breakdown Voltage ($I_R=1mA$) | $V_{(BR)}$ | 40 | --- | --- | Vdc |
| Forward Voltage ($I_F=1mAdc$) | V_F | --- | --- | 0.37 | Vdc |
| Reverse Current ($V_R=30Vdc$) | I_R | --- | --- | 0.5 | μAdc |
| Capacitance between Terminals ($V_R=1V, f=1MHz$) | C_T | --- | 2 | --- | pF |

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



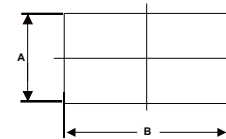
BOTTOM VIEW



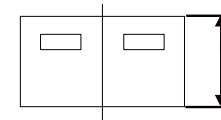
Marking: 5

**30 mA
Schottky Barrier Diode
40 Volts**

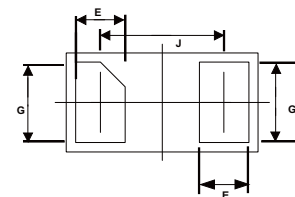
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TOP VIEW



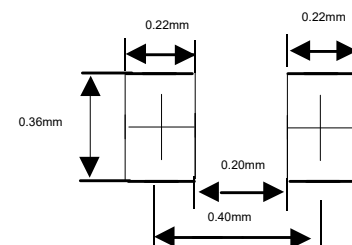
SIDE VIEW



BOTTOM VIEW

| DIM | DIMENSIONS | | | | NOTE |
|-----|------------|-------|-------|-------|------|
| | INCHES | | MM | | |
| | MIN | MAX | MIN | MAX | |
| A | 0.011 | 0.015 | 0.270 | 0.370 | |
| B | 0.022 | 0.026 | 0.570 | 0.670 | |
| D | 0.011 | 0.013 | 0.275 | 0.340 | |
| E | 0.005 | 0.008 | 0.125 | 0.195 | |
| G | 0.009 | 0.012 | 0.225 | 0.295 | |
| J | 0.014 | | 0.365 | | TYP. |

SUGGESTED SOLDER PAD LAYOUT



Curve Characteristics

Fig. 1 - Forward Characteristics

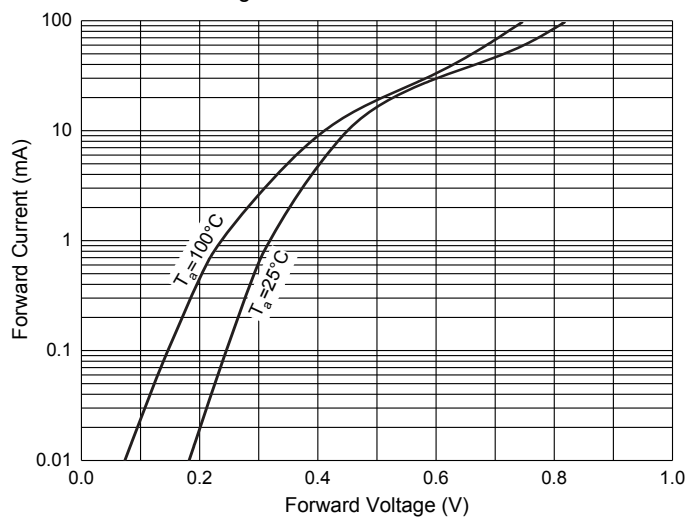


Fig. 2 - Reverse Characteristics

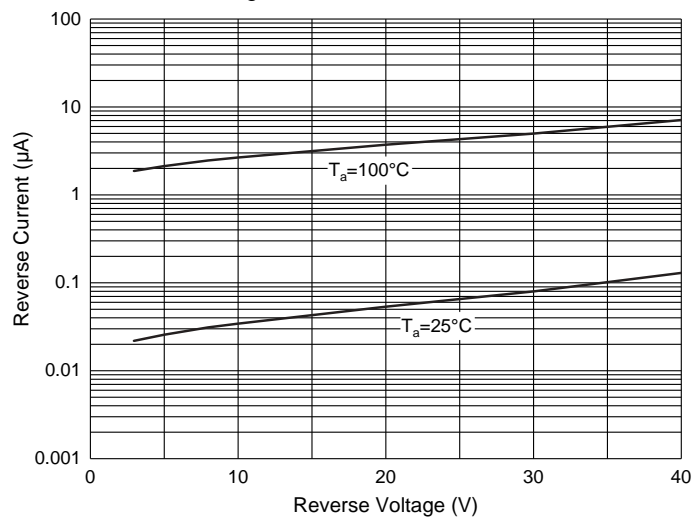


Fig. 3 - Capacitance Characteristics

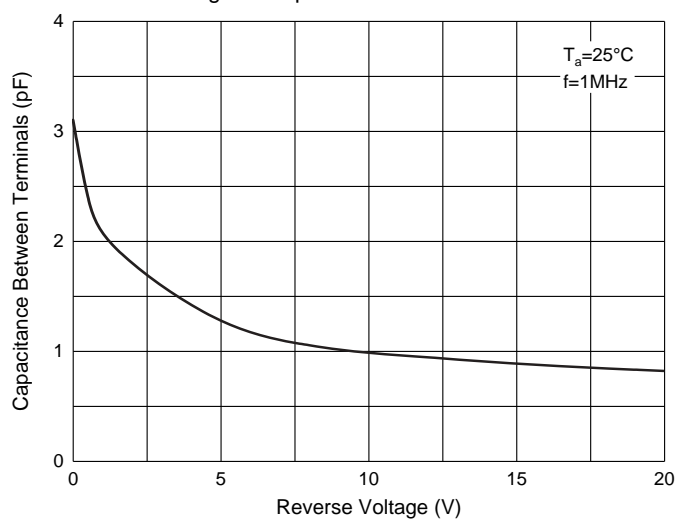
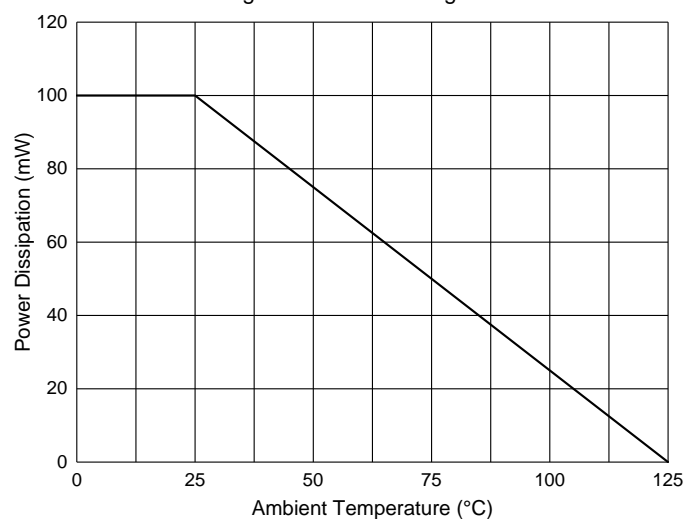


Fig. 4 - Power Derating Curve



Ordering Information

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

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