



Micro Commercial Components



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DL4448

Features

- Low Current Leakage
- Metalurgically Bonded Construction
- Low Cost
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates Compliant. See ordering information)

Maximum Ratings

- Operating Temperature: -65°C to +150°C
- Storage Temperature: -65°C to +150°C
- Maximum Thermal Resistance; 35°C/W Junction To Ambient
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

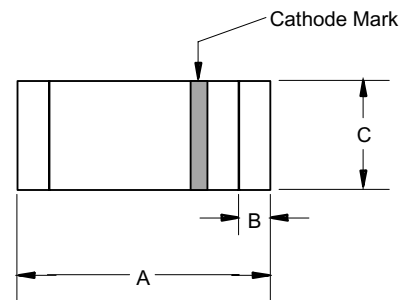
Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|---|-----------|-------------------------|---|
| Reverse Voltage | V_R | 75V | |
| Peak Reverse Voltage | V_{RM} | 100V | |
| Average Rectified Current | I_O | 150mA | Resistive Load $f > 50\text{Hz}$ |
| Power Dissipation | P_{TOT} | 500mW | |
| Junction Temperature | T_J | 200°C | |
| Peak Forward Surge Current | I_{FSM} | 500mA | $t < 1\text{s}$ |
| Instantaneous Forward Voltage | V_F | 1.0V(MAX) 0.62-0.72V | $I_{FM} = 100\text{mA};$ $I_{FM} = 5.0\text{mA}$ |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I_R | 25nA 5.0µA 50µA | $V_R=20\text{Volts}$ $T_J=25^\circ\text{C } V_R=75\text{V}$ $T_J=150^\circ\text{C } V_R=20\text{V}$ |
| Typical Junction Capacitance | C_J | 4pF | Measured at 1.0MHz, $V_R=4.0\text{V}$ |
| Reverse Recovery Time | T_{rr} | 4nS | $I_F=10\text{mA}$ $V_R = 6\text{V}$ $R_L=100\Omega$ |

Note:1.Lead in Glass Exemption Applied, see EU Directive Annex 5.

**500mW 100Volt
Switching Diode**

MINIMELF



| DIM | DIMENSIONS | | | | NOTE |
|-----|------------|------|------|------|------|
| | INCHES | | MM | | |
| | MIN | MAX | MIN | MAX | |
| A | .130 | .146 | 3.30 | 3.70 | |
| B | .008 | .016 | .20 | .40 | |
| C | .055 | .059 | 1.40 | 1.50 | ∅ |

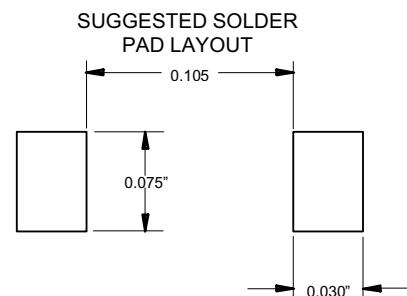
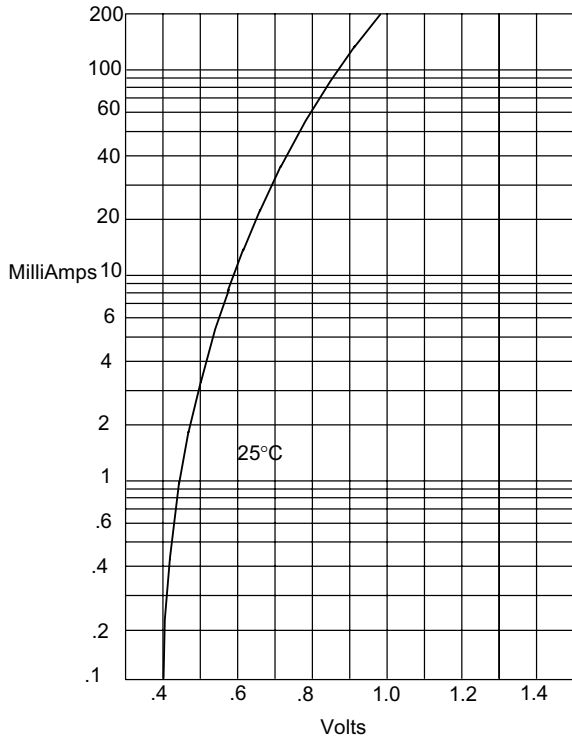
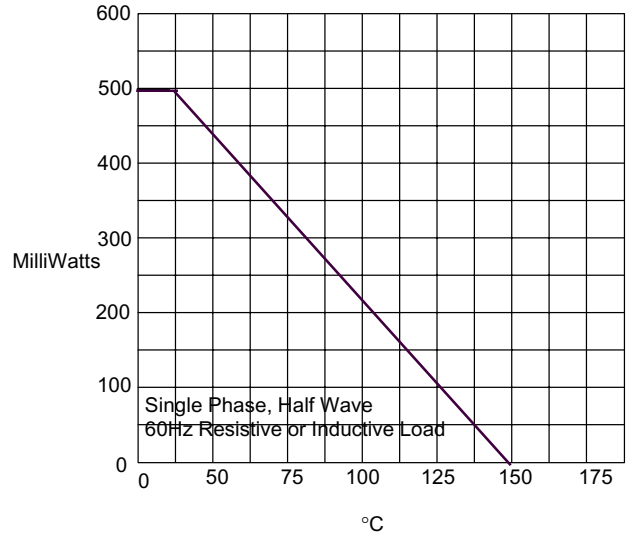


Figure 1
Typical Forward Characteristics



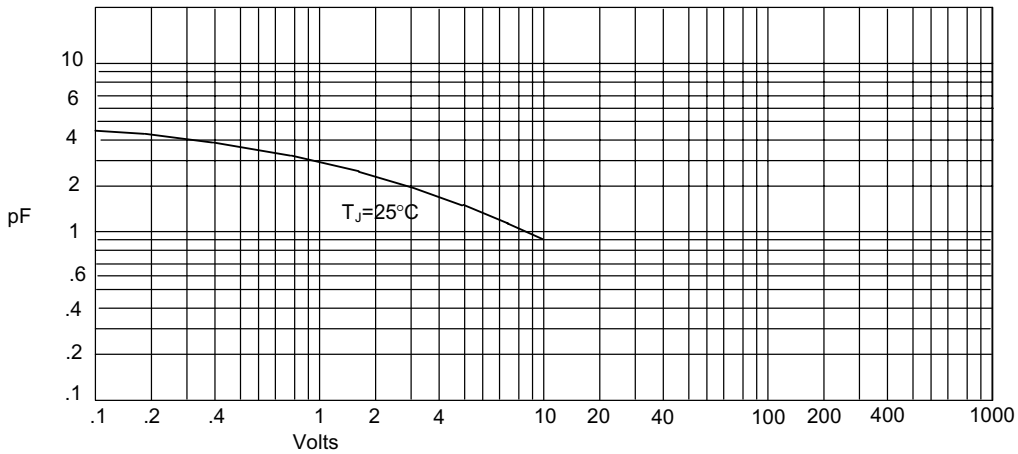
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



Single Phase, Half Wave
60Hz Resistive or Inductive Load
Average Forward Rectified Current - Amperes *versus*
Ambient Temperature - °C

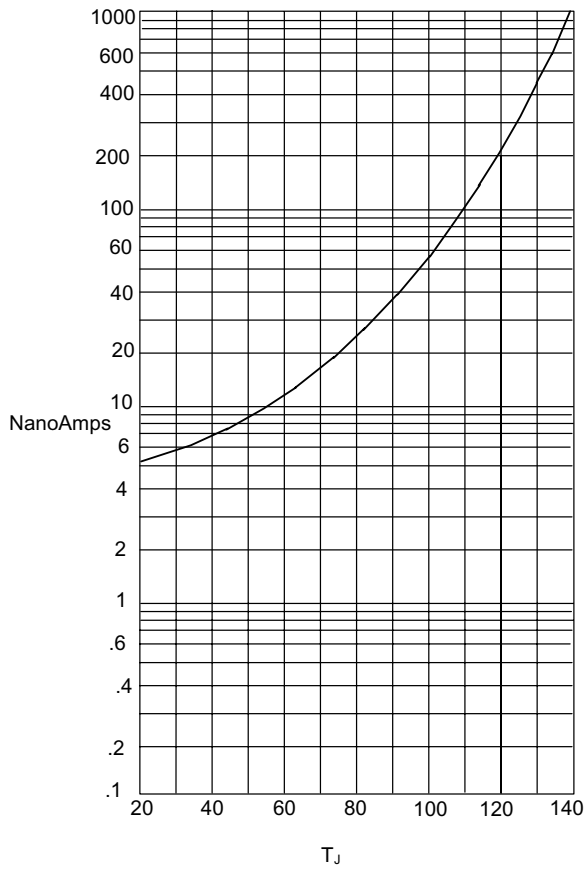
Figure 3
Junction Capacitance



Junction Capacitance - pF *versus*
Reverse Voltage - Volts

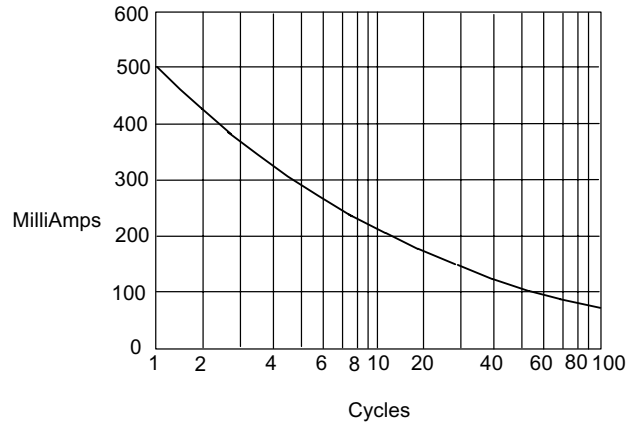
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Figure 4
Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - NanoAmperes versus
Junction Temperature - °C

Figure 5
Peak Forward Surge Current



Peak Forward Surge Current - Amperes versus
Number Of Cycles At 60Hz - Cycles



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Ordering Information :

| Device | Packing |
|----------------|-------------------------|
| Part Number-TP | Tape&Reel: 2.5Kpcs/Reel |

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