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Micro Commercial Components

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DL5817 THRU DL5819

Features

- Schottky Barrier Rectifier
- Guard Ring Protection
- Low Forward Voltage
- Low Power Loss For High Efficiency
- High Current Capability
- Surface Mount Applications
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

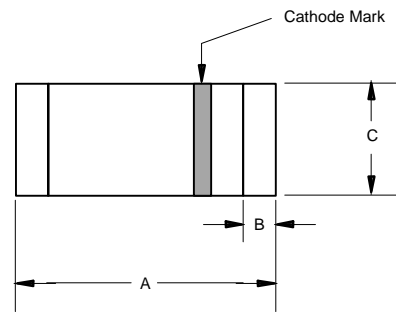
Maximum Ratings

- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 15°C/W Junction To Lead

| MCC Catalog Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|--------------------|----------------|--|---------------------|-----------------------------|
| DL5817 | --- | 20V | 14V | 20V |
| DL5818 | --- | 30V | 21V | 30V |
| DL5819 | --- | 40V | 28V | 40V |

1 Amp Schottky Barrier Rectifier 20 to 40 Volts

MELF



| DIM | INCHES | | MM | | NOTE |
|-----|--------|------|------|------|---------|
| | MIN | MAX | MIN | MAX | |
| A | .190 | .205 | 4.80 | 5.20 | |
| B | --- | .022 | --- | .55 | Nominal |
| C | .095 | .105 | 2.40 | 2.67 | ∅ |

Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|---|-------------|----------------------|--|
| Average Forward Current | $I_{F(AV)}$ | 1.0A | $T_A = 90^\circ\text{C}$ |
| Peak Forward Surge Current | I_{FSM} | 25A | 8.3ms, half sine |
| Maximum Instantaneous Forward Voltage | V_F | .45V .55V .60V | $I_{FM} = 1.0A;$ $T_J = 25^\circ\text{C}^*$ |
| DL5817 | | | |
| DL5818 DL5819 | | | |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I_R | 1.0mA | $T_J = 25^\circ\text{C}$ |

*Pulse test: Pulse width 300 μsec , Duty cycle 2%

SUGGESTED SOLDER PAD LAYOUT

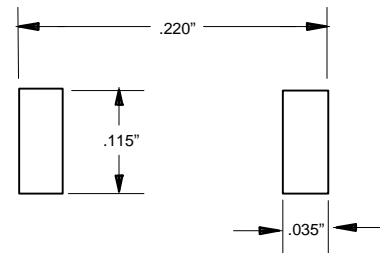
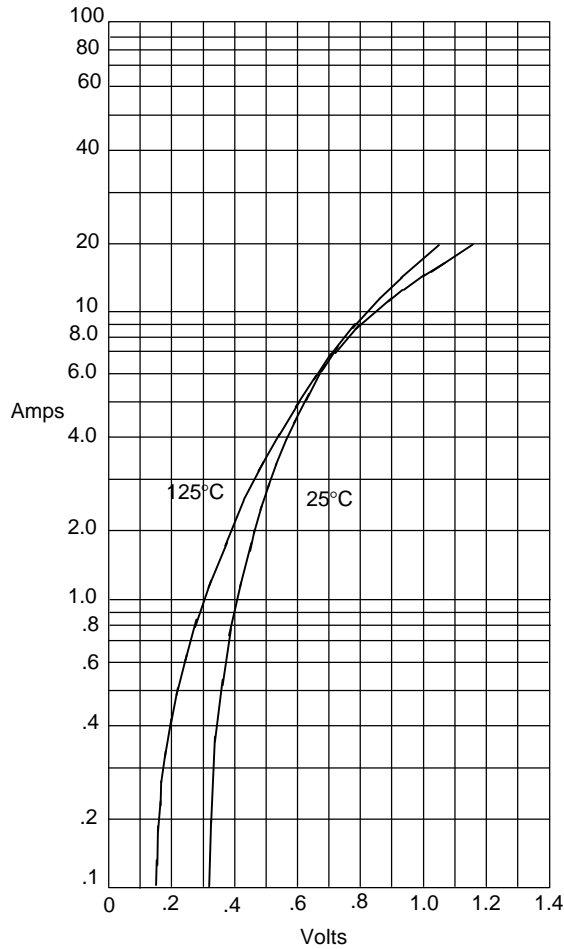
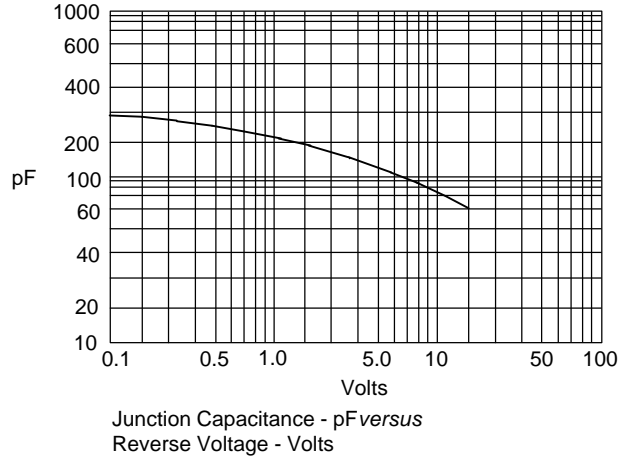


Figure 1
Typical Forward Characteristics



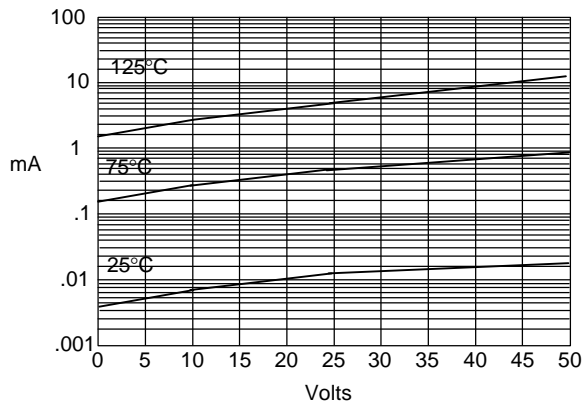
Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts

Figure 2
Typical Junction Capacitance



Junction Capacitance - pF versus
Reverse Voltage - Volts

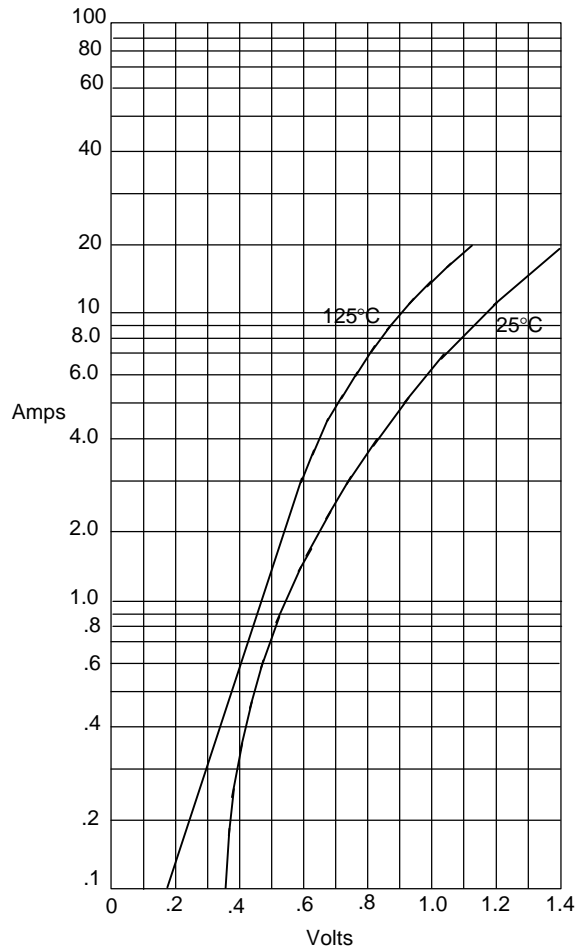
Figure 3
Typical Reverse Characteristics



Typical Reverse Current - mA versus
Reverse Voltage - Volts

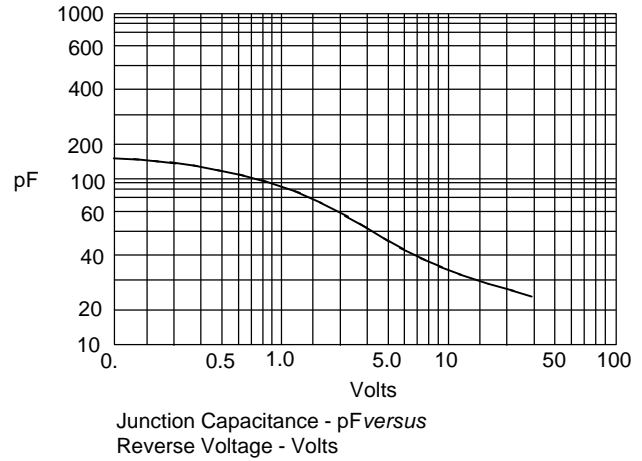
DL5818 thru DL5819

Figure 1
Typical Forward Characteristics



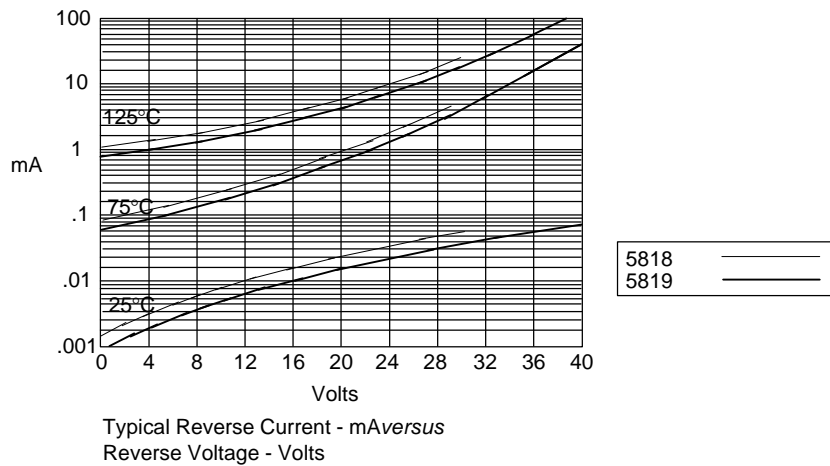
Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts

Figure 2
Typical Junction Capacitance



Junction Capacitance - pF versus
Reverse Voltage - Volts

Figure 3
Typical Reverse Characteristics



Typical Reverse Current - mA versus
Reverse Voltage - Volts



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