

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Guard Ring Protection
- Low Forward Voltage Drop
- For Use in Low Voltage, High Frequency Inverters
- High Surge Current Capability
- 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: -65°C to +125°C
- Storage Temperature Range: -65°C to +150°C
- Maximum Thermal Resistance: 500°C/W Junction to Ambient

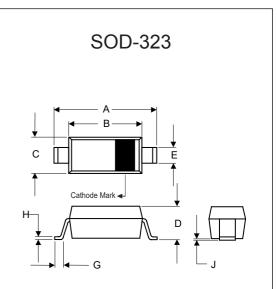
| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|--------------------|-------------------|---|------------------------|-----------------------------------|
| B5818LWS | SKL | 30V | 21V | 30V |

Electrical Characteristics @ 25°C Unless Otherwise Specified

| Average Forward Current | I _{F(AV)} | 1.0A | Tc = 90°C |
|---|--------------------|-------|--|
| Peak Forward Surge Current | I _{FSM} | 10A | 8.3ms Half Sine |
| Maximum Instantaneous Forward Voltage | V _F | 0.45V | I _{FM} =1.0A; T _J = 25°C (Note 1) |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I _R | 200µA | T _J = 25°C |
| Typical Junction Capacitance | CJ | 120pF | Measured at 1.0MHz , V _R =4.0V |

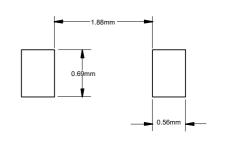
Notes: 1. Pulse Test: Pulse Width 300usec, Duty Cycle 2%

1 Amp Low VF Schottky Barrier Rectifier 30 Volts



| DIMENSIONS | | | | | | | |
|------------|--------|-------|------|------|------|--|--|
| DIM | INCHES | | MM | | NOTE | | |
| | MIN | MAX | MIN | MAX | NOTE | | |
| А | 0.090 | 0.107 | 2.30 | 2.70 | | | |
| В | 0.063 | 0.071 | 1.60 | 1.80 | | | |
| С | 0.045 | 0.053 | 1.15 | 1.35 | | | |
| D | 0.031 | 0.045 | 0.80 | 1.15 | | | |
| E | 0.010 | 0.016 | 0.25 | 0.40 | | | |
| G | 0.004 | 0.018 | 0.10 | 0.45 | | | |
| Н | 0.004 | 0.010 | 0.10 | 0.25 | | | |
| J | | 0.006 | | 0.15 | | | |

Suggested Solder Pad Layout





Curve Characteristics

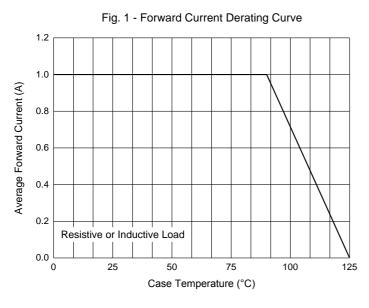
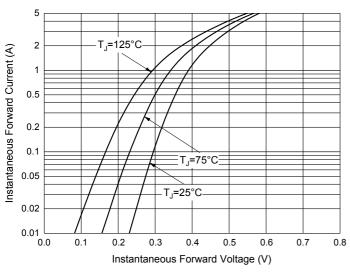
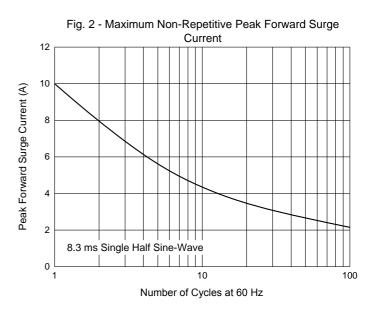
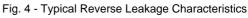
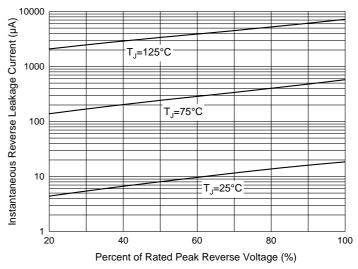


Fig. 3 - Typical Instantaneous Forward Characteristics











Ordering Information

| Device | Packing | | |
|----------------|-----------------------|--|--|
| Part Number-TP | Tape&Reel: 3Kpcs/Reel | | |

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

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