

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- High Current Capability With Low Forward Voltage
- For Surface Mount Applications
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Halogen Free. "Green" Device (Note 2)
- · High Junction Temperature Capability

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +175°C
- Storage Temperature Range: -55°C to +175°C
- Thermal Resistance: 16°C/W Junction to Lead
- Thermal Resistance: 55°C/W Junction to Ambient

| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|--------------------|-------------------|---|------------------------|-----------------------------------|
| SK510BH-L | SK510BH | 100V | 70V | 100V |

Electrical Characteristics @ 25°C Unless Otherwise Specified

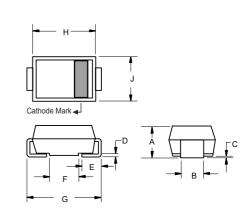
| Average Forward Current | I _{F(AV)} | 5.0A | T _L =120°C |
|---|--------------------|------------|---|
| Peak Forward Surge Current | I _{FSM} | 100A | 8.3ms,Half Sine |
| Maximum Instantaneous Forward Voltage | V _F | 0.85V | I _{FM} =5.0A; T _J =25°C* |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | I _R | 5μA 1mA | T _J =25°C T _J =125°C |

^{*}Pulse test: Pulse width 200 µsec, Duty cycle 2% Note:

- 1. High Temperature Solder Exemptions Applied, See EU Directive Annex 7a.
- 2. Halogen free "Green" products are defined as those which contain <900 ppm bromine,
- <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

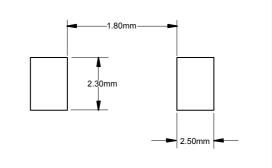
5 Amp Schottky Rectifier 100 Volts

SMB (DO-214AA)



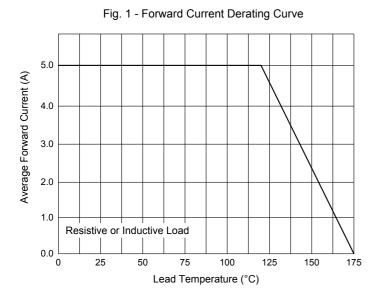
| DIMENSIONS | | | | | | |
|------------|--------|-------|------|------|------|--|
| DIM | INCHES | | MM | | NOTE | |
| DIIVI | MIN | MAX | MIN | MAX | NOTE | |
| Α | 0.079 | 0.103 | 2.00 | 2.62 | | |
| В | 0.075 | 0.087 | 1.91 | 2.21 | | |
| С | 0.002 | 0.008 | 0.05 | 0.20 | | |
| D | 0.006 | 0.012 | 0.15 | 0.31 | | |
| E | 0.030 | 0.060 | 0.76 | 1.52 | | |
| F | 0.065 | 0.091 | 1.65 | 2.32 | | |
| G | 0.200 | 0.220 | 5.08 | 5.59 | | |
| Н | 0.160 | 0.191 | 4.06 | 4.85 | | |
| J | 0.130 | 0.155 | 3.30 | 3.94 | | |

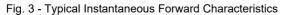
Suggested Solder Pad Layout

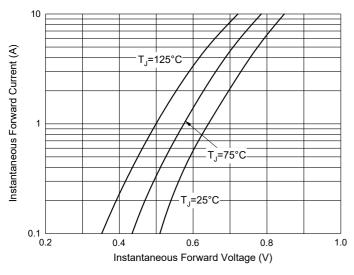




Curve Characteristics







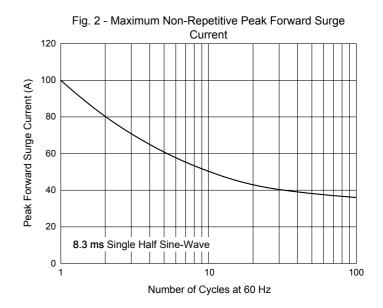
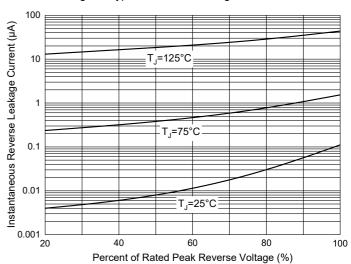


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

| Device | Packing | |
|-------------|-----------------------|--|
| SK510BH-LTP | Tape&Reel: 3Kpcs/Reel | |

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