

Features

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

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance(Note 3) : 50°C/W Junction to Ambient
- Typical Thermal Resistance(Note 3) : 18°C/W Junction to Lead

| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|--------------------|-------------------|---|------------------------|-----------------------------------|
| SK82L | SK82 | 20V | 14V | 20V |
| SK83L | SK83 | 30V | 21V | 30V |
| SK835L | SK835 | 35V | 24.5V | 35V |
| SK84L | SK84 | 40V | 28V | 40V |
| SK845L | SK845 | 45V | 31.5V | 45V |
| SK86L | SK86 | 60V | 42V | 60V |
| SK88L | SK88 | 80V | 56V | 80V |
| SK810L | SK810 | 100V | 70V | 100V |

Electrical Characteristics @ 25°C Unless Otherwise Specified

| Average Forward Current | I _{F(AV)} | 8.0A | T _L =95°C |
|---|--------------------|----------------|--|
| Peak Forward Surge Current | I _{FSM} | 200A | 8.3ms,Half Sine |
| Maximum Instantaneous Forward Voltage | | | |
| SK82L-86L SK88L-810L | V_{F} | 0.65V 0.80V | I _{FM} =8.0A; T _J =25°C |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | I _R | 0.1mA 10mA | T _J =25°C; T _J =100°C |
| Typical Junction Capacitance | CJ | 400pF | Measured at 1.0MHz, V _R =4.0V |

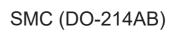
Note:

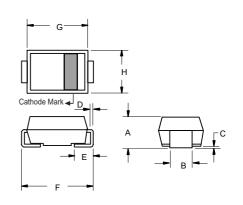
1. High Temperature Solder Exemptions Applied, See EU Directive Annex 7a.

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

3.Mounted on P.C.B. With 0.6" x 0.6" (16 mm x 16 mm) Copper Pad Areas

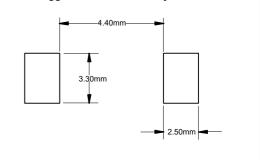
8.0 Amp Schottky Rectifier 20 to 100 Volts





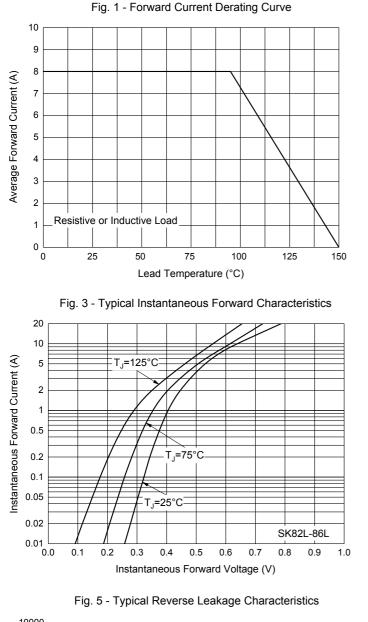
| DIMENSIONS | | | | | | |
|------------|--------|-------|-------|-------|------|--|
| DIM | INCHES | | MM | | NOTE | |
| | MIN | MAX | MIN | MAX | NOTE | |
| Α | 0.079 | 0.103 | 2.00 | 2.62 | | |
| В | 0.108 | 0.128 | 2.75 | 3.25 | | |
| С | 0.002 | 0.008 | 0.051 | 0.203 | | |
| D | 0.006 | 0.012 | 0.152 | 0.305 | | |
| Е | 0.030 | 0.060 | 0.76 | 1.52 | | |
| F | 0.305 | 0.320 | 7.75 | 8.13 | | |
| G | 0.260 | 0.280 | 6.60 | 7.11 | | |
| Н | 0.220 | 0.245 | 5.59 | 6.22 | | |

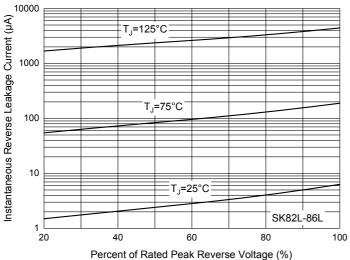
Suggested Solder Pad Layout





Curve Characteristics





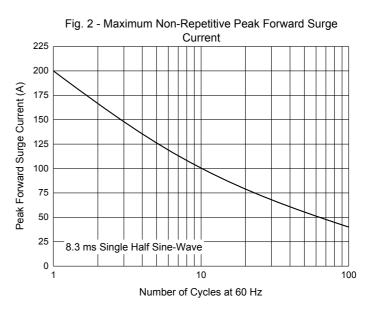


Fig. 4 - Typical Instantaneous Forward Characteristics

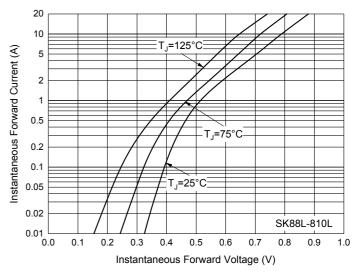
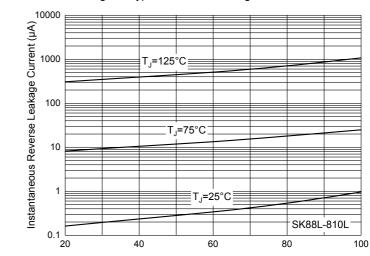


Fig. 6 - Typical Reverse Leakage Characteristics



Percent of Rated Peak Reverse Voltage (%)



Ordering Information

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

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