

Features

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

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance(Note 3): 16°C/W Junction to Lead
- Maximum Thermal Resistance(Note 3): 70°C/W Junction to Ambient

| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|--------------------|-------------------|---|------------------------|-----------------------------------|
| SL34PL | SL34 | 40V | 28V | 40V |
| SL36PL | SL36 | 60V | 42V | 60V |
| SL310PL | SL310 | 100V | 70V | 100V |

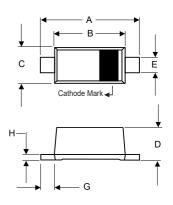
Electrical Characteristics @ 25°C Unless Otherwise Specified

| Average Forward Current | I _{F(AV)} | 3.0A | T _A =75°C |
|---|--------------------|-------|------------------------|
| Peak Forward Surge Current | I _{FSM} | 60A | 8.3ms,Half Sine |
| Maximum Instantaneous Forward Voltage | | | |
| SL34PL | V_{F} | 0.45V | I _{FM} =3.0A; |
| SL36PL | | 0.50V | T _A =25°C |
| SL310PL | | 0.60V | |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | I _R | 0.1mA | T _A =25°C |

- Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
 - 2. High Temperature Solder Exemption Applied, see EU Directive Annex 7a.
 - 3. Thermal Resistance Between Junction and Ambient and Between Junction and Lead Mounted on P.C.B with 3mm*3mm.

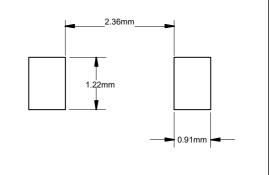
3 Amp Low VF Schottky Rectifier 40 to 100 Volts

SOD-123FL



| DIMENSIONS | | | | | | |
|------------|--------|-------|------|------|------|--|
| DIM | INCHES | | MM | | NOTE | |
| DIIVI | MIN | MAX | MIN | MAX | NOTE | |
| Α | 0.130 | 0.152 | 3.30 | 3.85 | | |
| В | 0.100 | 0.122 | 2.55 | 3.10 | | |
| С | 0.055 | 0.075 | 1.40 | 1.90 | | |
| D | 0.035 | 0.053 | 0.90 | 1.35 | | |
| Е | 0.020 | 0.041 | 0.50 | 1.05 | | |
| G | 0.010 | | 0.25 | | | |
| Ι | | 0.010 | | 0.25 | | |

Suggested Solder Pad Layout





Curve Characteristics

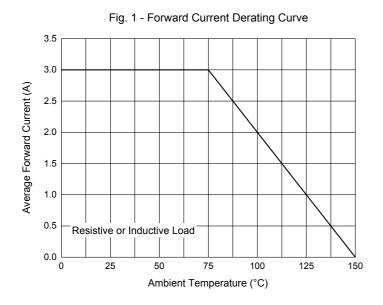


Fig. 3 - Typical Instantaneous Forward Characteristics

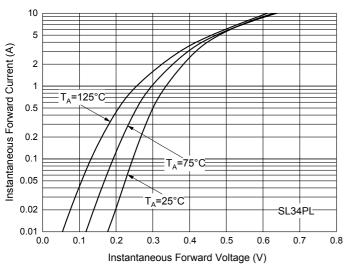


Fig. 5 - Typical Instantaneous Forward Characteristics

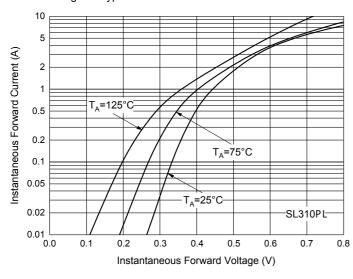


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge
Current

TO

40

40

30

20

8.3 ms Single Half Sine-Wave
0

Number of Cycles at 60 Hz

Fig. 4 - Typical Instantaneous Forward Characteristics

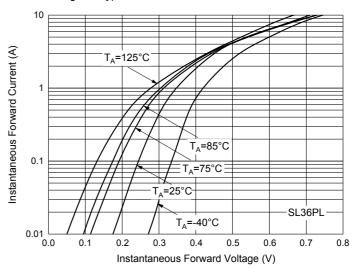
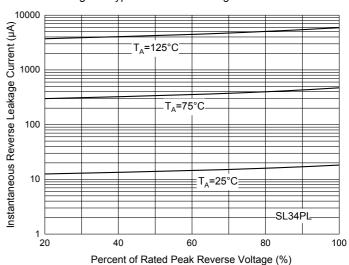


Fig. 6 - Typical Reverse Leakage Characteristics





Curve Characteristics

Fig. 7 - Typical Reverse Leakage Characteristics

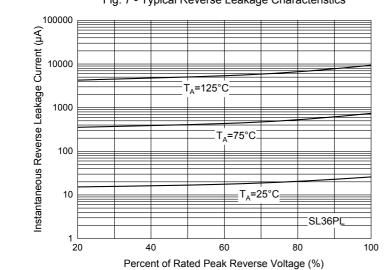
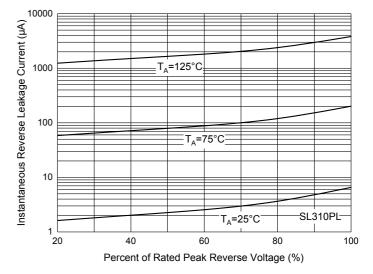


Fig. 8 - Typical Reverse Leakage Characteristics





Ordering Information

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

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