

Features

- 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
- High Surge Forward Current Capability
- Extremely Low Thermal Resistance
- 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
- Maximum Thermal Resistance: 22°C/W Junction to Lead

| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|----------------|--|---------------------|-----------------------------|
| SL24A | SL24A | 40V | 28V | 40V |
| SL26A | SL26A | 60V | 42V | 60V |
| SL210A | SL210A | 100V | 70V | 100V |

Electrical Characteristics @ 25°C Unless Otherwise Specified

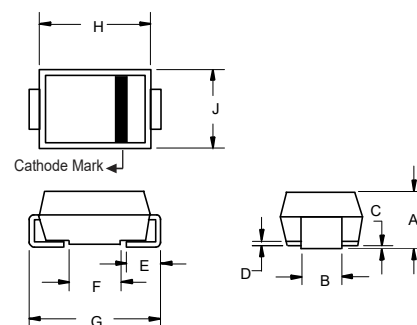
| | | | |
|---|--------------------------|---|---|
| Average Forward Current | $I_{F(AV)}$ | 2.0A | $T_L=90^\circ\text{C}$ |
| Peak Forward Surge Current | I_{FSM} | 50A | 8.3ms, Half Sine |
| Instantaneous Forward Voltage | V_F | 0.47V(Max.) 0.43V(Max.) 0.40V(Typ.) | $I_{FM}=2.0A; T_J=25^\circ\text{C}$ $I_{FM}=2.0A; T_J=125^\circ\text{C}$ |
| | SL26A | 0.55V(Max.) 0.52V(Max.) 0.49V(Typ.) | $I_{FM}=2.0A; T_J=25^\circ\text{C}$ $I_{FM}=2.0A; T_J=125^\circ\text{C}$ |
| | SL210A | 0.75V(Max.) 0.62V(Max.) 0.58V(Typ.) | $I_{FM}=2.0A; T_J=25^\circ\text{C}$ $I_{FM}=2.0A; T_J=125^\circ\text{C}$ |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I_R | 0.1mA 10mA | $T_J=25^\circ\text{C}$ $T_J=125^\circ\text{C}$ |
| Typical junction capacitance | C_J | 110pF 90pF 60pF | Measured at 1.0MHz, $V_R=4.0V$ |
| | SL24A SL26A SL210A | | |

Note :

1. High Temperature Solder Exemption 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.

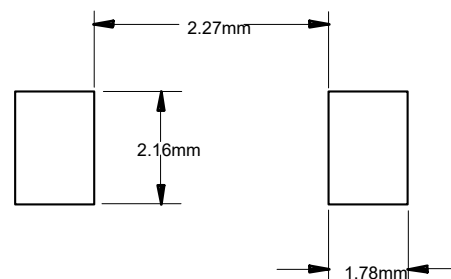
2 Amp Low VF Schottky Rectifier 40 to 100 Volts

SMA (DO-214AC)



| DIM | DIMENSIONS | | | | NOTE |
|-----|------------|-------|-------|-------|------|
| | INCHES | | MM | | |
| | MIN | MAX | MIN | MAX | |
| A | 0.075 | 0.096 | 1.90 | 2.44 | |
| B | 0.050 | 0.064 | 1.27 | 1.63 | |
| C | 0.002 | 0.008 | 0.051 | 0.203 | |
| D | --- | 0.020 | --- | 0.51 | |
| E | 0.030 | 0.060 | 0.76 | 1.52 | |
| F | 0.065 | 0.091 | 1.65 | 2.32 | |
| G | 0.189 | 0.220 | 4.80 | 5.59 | |
| H | 0.157 | 0.187 | 4.00 | 4.75 | |
| J | 0.090 | 0.115 | 2.25 | 2.92 | |

SUGGESTED SOLDER PAD LAYOUT



Curve Characteristics

Fig. 1 - Forward Current Derating Curve

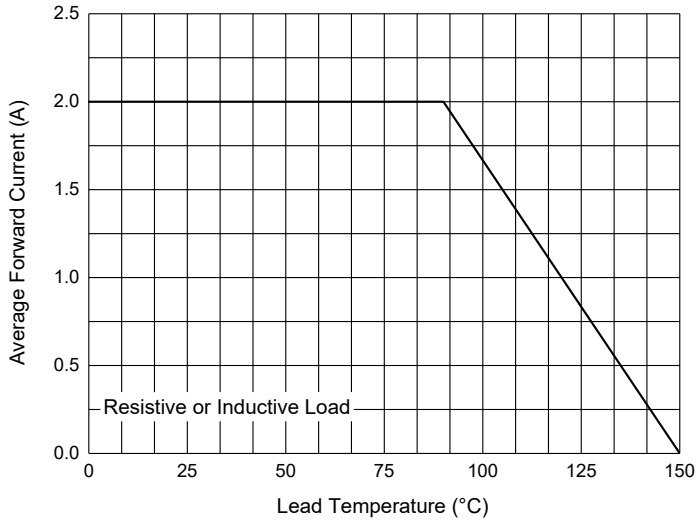


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

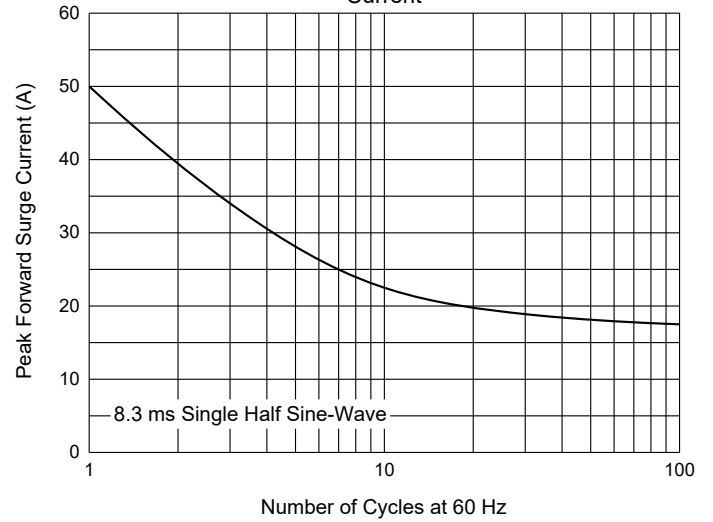


Fig. 3 - Typical Instantaneous Forward Characteristics

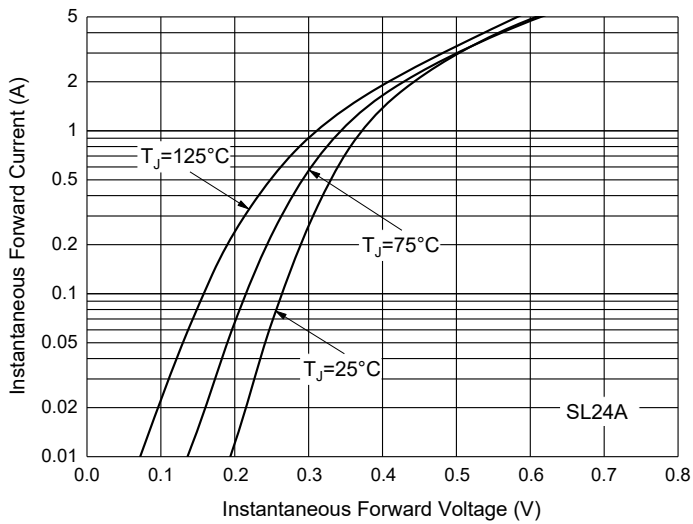


Fig. 4 - Typical Instantaneous Forward Characteristics

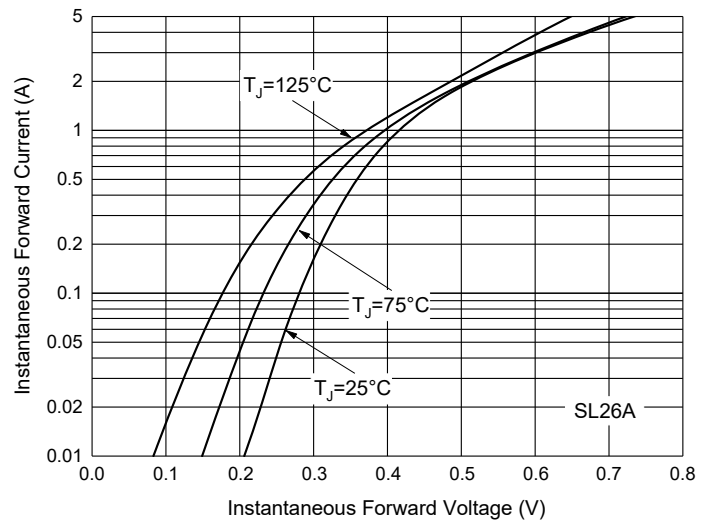


Fig. 5 - Typical Instantaneous Forward Characteristics

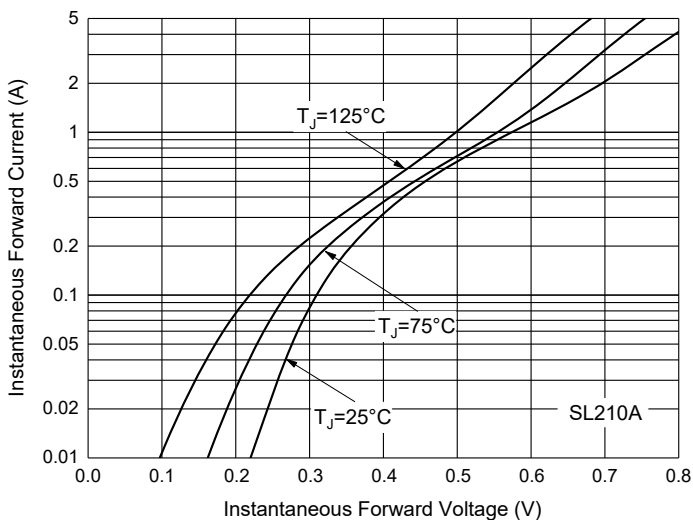
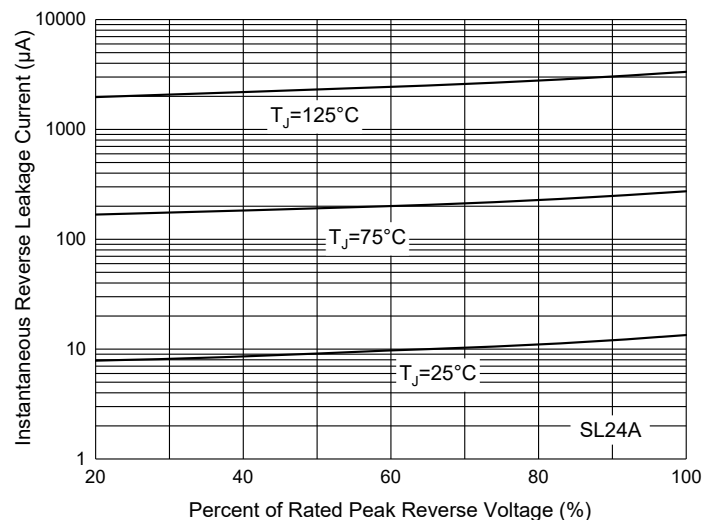


Fig. 6 - Typical Reverse Leakage Characteristics



Curve Characteristics

Fig. 7 - Typical Reverse Leakage Characteristics

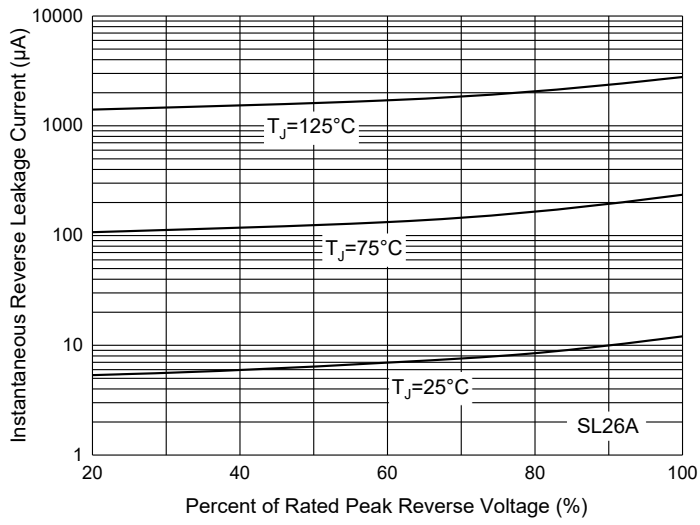
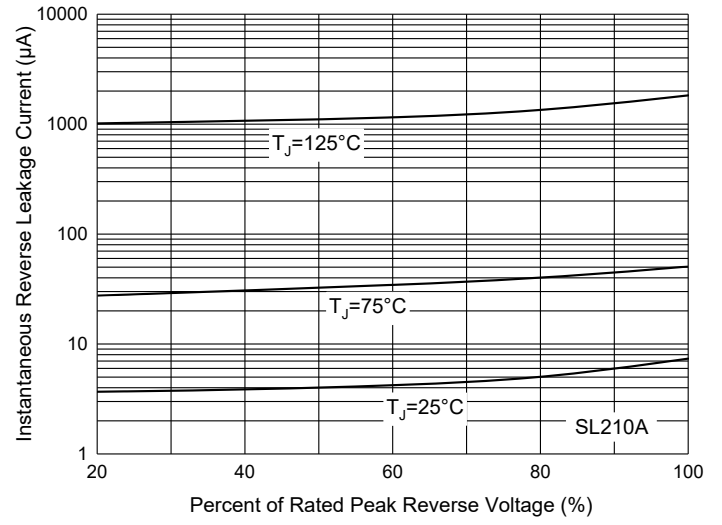


Fig. 8 - Typical Reverse Leakage Characteristics



Ordering Information

| Device | Packing |
|--------------------|-----------------------|
| SL24A-TP~SL210A-TP | Tape&Reel: 5Kpcs/Reel |

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