

Technical Data Data Sheet N0975, Rev. -

Green Products

Features

- Schottky Barrier Chip
- Ideally Suited for Automatic Assembly
- Low Power Loss, High Efficiency
- Surge Overload Rating to 30A Peak
- For Use in Low Voltage Application
- Guard Ring Die Construction
- Plastic Case Material has UL Flammability Classification Rating 94V-O
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

B H F D

| SMA/DO-214AC | | | | | | | | |
|--------------|-------|------|-------|-------|--|--|--|--|
| Dim | Min | Max | Min | Max | | | | |
| Α | 2.50 | 2.90 | 0.098 | 0.114 | | | | |
| В | 4.00 | 4.60 | 0.157 | 0.181 | | | | |
| С | 1.40 | 1.60 | 0.055 | 0.063 | | | | |
| D | 0.15 | 0.31 | 0.006 | 0.012 | | | | |
| E | 4.80 | 5.28 | 0.189 | 0.208 | | | | |
| F | 2.00 | 2.44 | 0.079 | 0.096 | | | | |
| G | 0.05 | 0.20 | 0.002 | 0.008 | | | | |
| Н | 0.76 | 1.52 | 0.030 | 0.060 | | | | |
| | In mm | | ln i | nch | | | | |

Mechanical Data

- Case: Low Profile Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.064 grams (approx.)

Marking Diagram:



Where XXXXX is YYWWL

SL12 = Package type YY = Year

WW = Week
L = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information

| Device | Package | Shipping |
|-----------|------------------|----------------|
| SL12-SL14 | SMA (Pb-Free) | 5000pcs / reel |

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

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Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

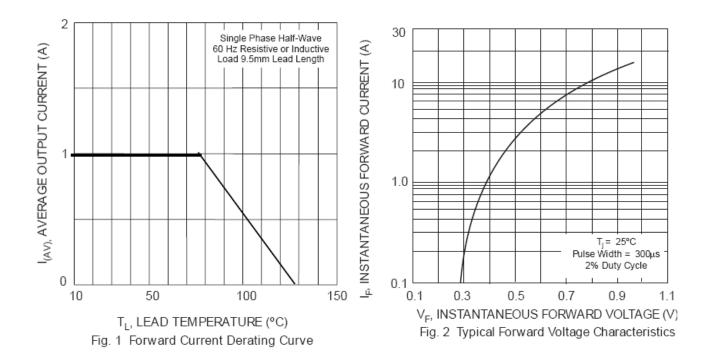
| Characteristic | Symbol | SL12 | SL13 | SL14 | Unit |
|-----------------------------------------------------------------------------------------------------------------------|--------------------|-------------|------|------|------|
| Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage | VRRM VRWM VR | 20 | 30 | 40 | V |
| RMS Reverse Voltage | VR(RMS) | 14 | 21 | 28 | V |
| Average Rectified Output Current @T _L = 75°C | lo | 1.0 | | | Α |
| Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | IFSM | 30 | | | A |
| Forward Voltage @I _F = 1.0A | VFM | 0.38 | 0.38 | 0.40 | V |
| Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C | IRM | 0.5 20 | | | mA |
| Typical Thermal Resistance Junction to Ambient (Note 1) | R⊕JA | 88 | | | K/W |
| Operating Temperature Range | Tj | -65 to +125 | | | °C |
| Storage Temperature Range | Тѕтс | -65 to +150 | | | °C |

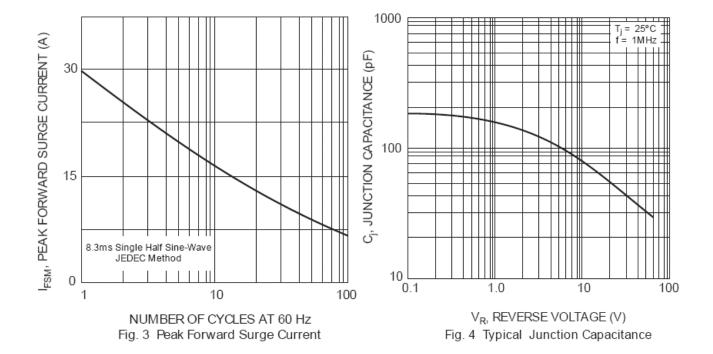
Note: 1. Mounted on P.C. Board with 5.0mm² (0.13mm thick) copper pad areas

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SL12-SL14 1.0A LOW VF SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

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