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SEMICONDUCTOR



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PLED

SL56-MS

Product specification

FEATURES

- Ideal for surface mount applications
- Easy pick and place
- Built-in strain relief
- Low forward voltage drop

MACHANICAL DATA

- Case: Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Metallurgically bonded construction
- Polarity: Color band denotes cathode end
- Mounting position: Any
- Weight: 0.093 grams


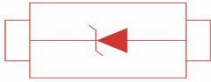

- **VOLTAGE RANGE**

60 Volts

- **CURRENT**

5.0 Ampere

Reference News

| PACKAGE OUTLINE | PIN CONFIGURATION | Marking |
|---|---|---|
|  |  |  |
| <p>SMB</p> | | |

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25 C ambient temperature unless otherwise specified.

Single phase half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

| TYPE NUMBER | SL56-MS | UNITS |
|---|-----------------------------------|----------|
| Maximum Recurrent Peak Reverse Voltage | 60 | V |
| Maximum RMS Voltage | 42 | V |
| Maximum DC Blocking Voltage | 60 | V |
| Maximum Average Forward Rectified Current See Fig. 1 | 5.0 | A |
| Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | 120 | A |
| Maximum Instantaneous Forward Voltage at 2.0A | 0.55 | V |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | Ta=25 C 0.15 Ta=125°C 30 | mA mA |
| Typical Junction Capacitance (Note1) | 370 | pF |
| Typical Thermal Resistance R _{JA} (Note 2) | 70 | C/W |
| Operating Temperature Range T _J | -55 to +125 | °C |
| Storage Temperature Range T _{STG} | -55 to +125 | °C |

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. P.C.B. mounted with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas

RATING AND CHARACTERISTIC CURVES (SL56-MS)

FIG.1-FORWARD CURRENT DERATING CURVE

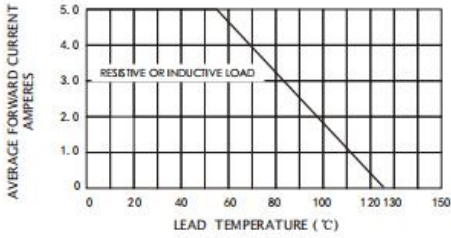


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

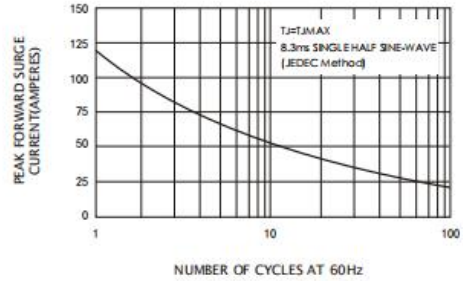


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

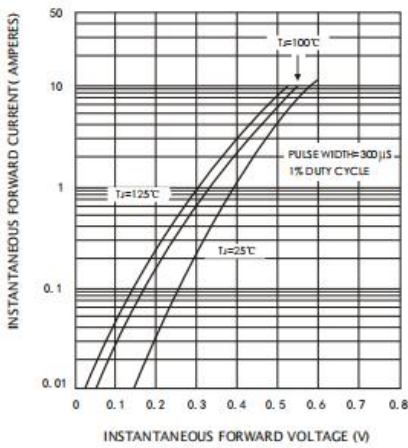


FIG.4-TYPICAL REVERSE CHARACTERISTICS

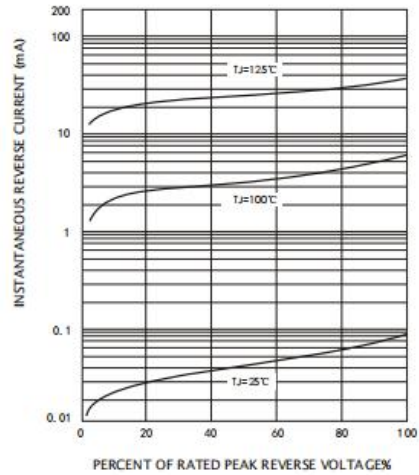
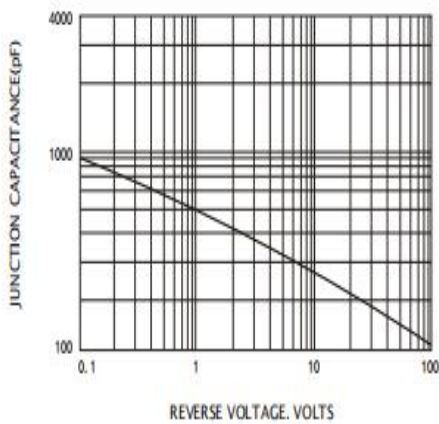
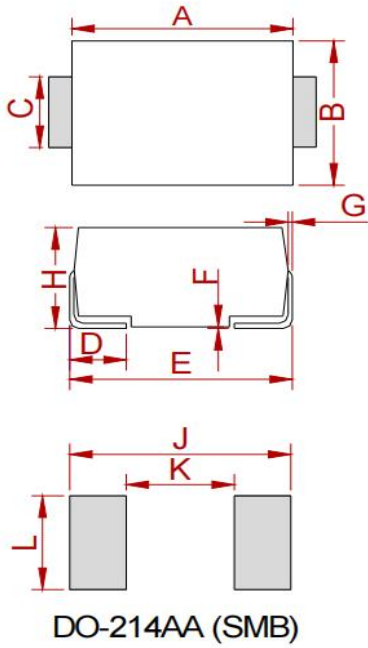


FIG.5-TYPICAL JUNCTION CAPACITANCE



PACKAGE MECHANICAL DATA

PACKAGE MECHANICAL DATA



| Ref. | Dimensions | | | |
|------|-------------|-------|--------|-------|
| | Millimeters | | Inches | |
| | Min. | Max. | Min. | Max. |
| A | 4.25 | 4.75 | 0.167 | 0.187 |
| B | 3.30 | 3.94 | 0.130 | 0.155 |
| C | 1.85 | 2.21 | 0.073 | 0.087 |
| D | 0.76 | 1.52 | 0.030 | 0.060 |
| E | 5.08 | 5.59 | 0.200 | 0.220 |
| F | 0.051 | 0.203 | 0.002 | 0.008 |
| G | 0.15 | 0.31 | 0.006 | 0.012 |
| H | 2.11 | 2.44 | 0.083 | 0.096 |
| J | 6.80 | | 0.270 | |
| K | | 2.60 | | 0.100 |
| L | 2.40 | | 0.090 | |

REEL SPECIFICATION

| P/N | PKG | QTY |
|---------|-----|------|
| SL56-MS | SMB | 3000 |

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