
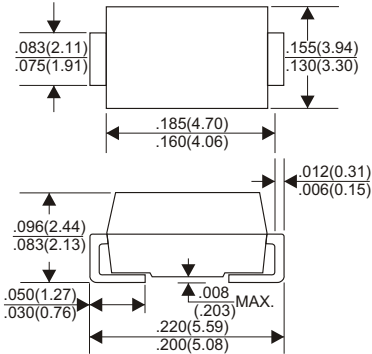


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| <div></div> <div><h3>FEATURES</h3><ul style="list-style-type: none">* Ideal for surface mount applications* Easy pick and place* Built-in strain relief* Low forward voltage drop</div> <div><h3>MECHANICAL DATA</h3><ul style="list-style-type: none">* 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</div> | <div><h3>VOLTAGE RANGE</h3><p>40 Volts</p><h3>CURRENT</h3><p>5.0 Amperes</p></div> <div><h4>DO-214AA(SMB)</h4><p>Dimensions in inches and (millimeters)</p></div> |
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| 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 | SL54 | UNITS |
| Maximum Recurrent Peak Reverse Voltage | 40 | V |
| Maximum RMS Voltage | 28 | V |
| Maximum DC Blocking Voltage | 40 | 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 5.0A | 0.46 | V |
| Maximum DC Reverse Current Ta=25°C | 0.2 | mA |
| at Rated DC Blocking Voltage Ta=100°C | 50 | mA |
| Typical Junction Capacitance (Note1) | 380 | pF |
| Typical Thermal Resistance R JA (Note 2) | 70 | °C/W |
| Operating Temperature Range Tj | -55 — +150 | °C |
| Storage Temperature Range Tstg | -55 — +150 | °C |
| NOTES: | | |
| 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C. | | |
| 2. Unit mounted on PC board with 5.0mm× 5.0 mm (0.013 mm thick) copper pads as heat sink | | |

RATING AND CHARACTERISTIC CURVES (SL54)

FIG.1-FORWARD CURRENT DERATING CURVE

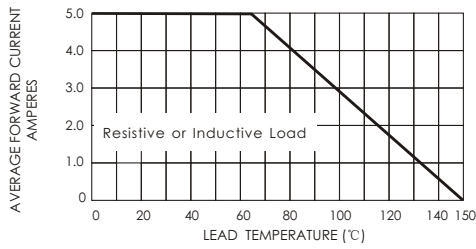


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

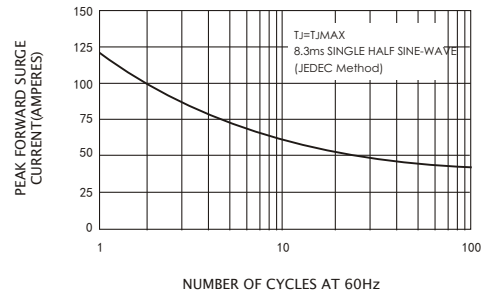


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

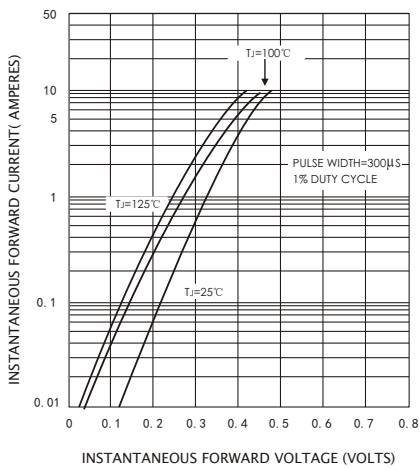


FIG.4-TYPICAL REVERSE CHARACTERISTICS

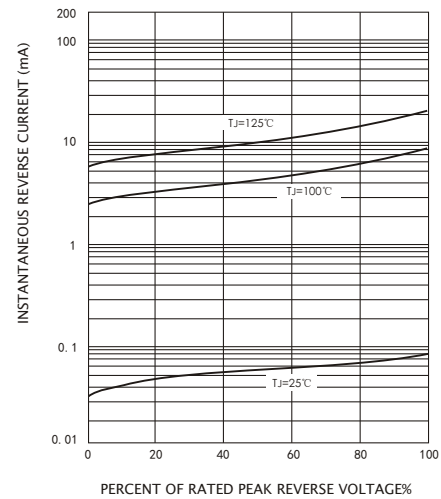


FIG.5-TYPICAL JUNCTION CAPACITANCE

