

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature uniess otherwies 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      | А     |
| 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-+125 | °C    |
| Storage Temperature Range Tsтс                |                       | -55-+150 | Э°    |

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. Unit mounted on PC board with 5.0mm  $\!\times$  5.0 mm (0.013 mm thick) copper pads as heat sink

## RATING AND CHARACTERISTIC CURVES (SL54)

