

LL5817 THRU LL5819

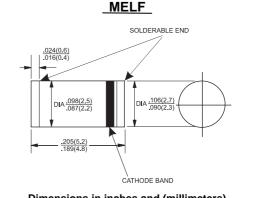
1.0 AMP. Surface Mount Schottky Barrier Rectifiers



Voltage Range 20 to 40 Volts Current 1.0 Ampere

Features

- Surge overload ratings to 25 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Mounting position: Any
- Weight: 0.12 gram



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%

| Type Number | Symbol | LL5817 | LL5818 | LL5819 | Units |
|--|-------------------|-------------------------------|--------|--------|-----------|
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | 20 | 30 | 40 | V |
| Maximum RMS Voltage | V_{RMS} | 14 | 21 | 28 | V |
| Maximum DC Blocking Voltage | V_{DC} | 20 | 30 | 40 | V |
| Maximum Average Forward Rectified Current @T _L = 90°C | I _(AV) | 1.0 | | | Α |
| Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method) | I _{FSM} | | 25 | | А |
| Maximum Instantaneous Forward Voltage @1.0A | V_{F} | 0.450 | 0.550 | 0.600 | V |
| Maximum Instantaneous Forward Voltage @3.0A | V_{F} | 0.750 | 0.875 | 0.900 | V |
| Maximum DC Reverse Current @ T_A =25°C at Rated DC Blocking Voltage @ T_A =100°C | I_R | 1.0 10 | | | mA mA |
| Typical Thermal Resistance (Note 1) | $R\theta_{JA}$ | 80 | | | \$ |
| Typical Junction Capacitance (Note 2) | Cj | 110 | | | pF |
| Operating and Storage Temperature Range | T_J, T_{STG} | - 65 to + 125 / - 65 to + 150 | | | C |

Notes: 1. Thermal Resistance Junction to Ambient

2. Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C.



RATINGS AND CHARACTERISTIC CURVES (LL5817 THRU LL5819)

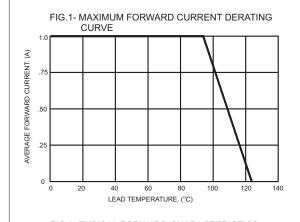


FIG.2- TYPICAL JUNCTION CAPACITANCE

