

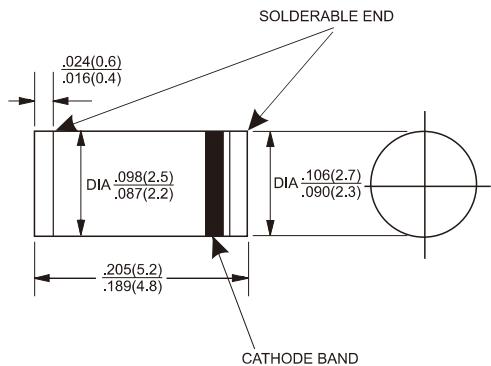


LL5817 - LL5819

1.0 AMP. Surface Mount Schottky Barrier Rectifiers
MELF

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
- ◊ High temperature soldering:
260°C/ 10 seconds at terminals
- ◊ Mounting position: Any
- ◊ Weight: 0.12 grams



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%

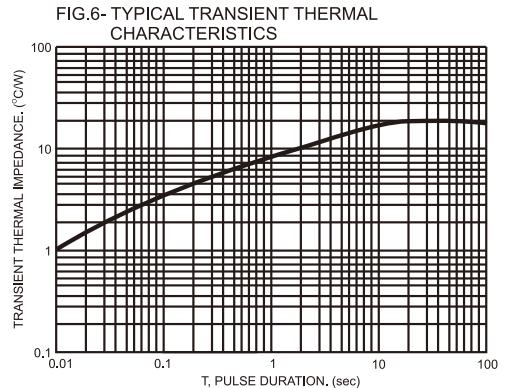
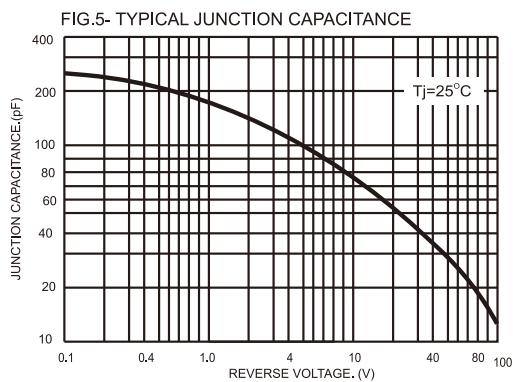
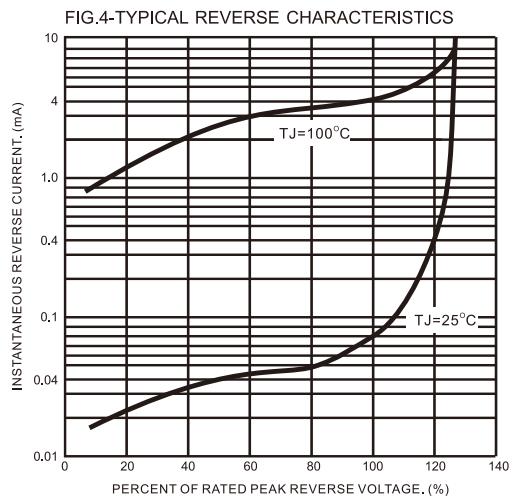
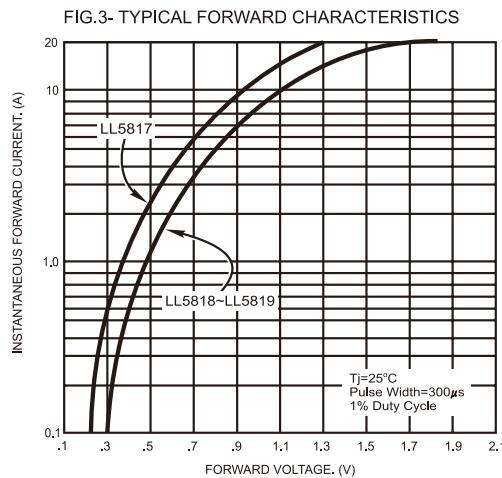
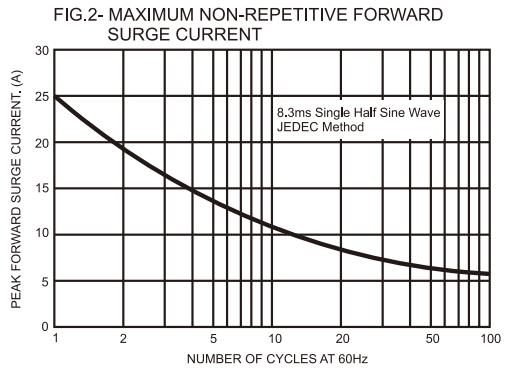
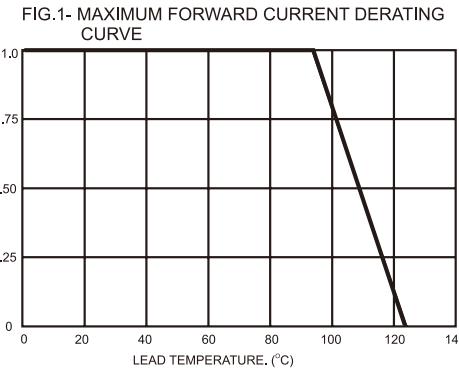
Type Number	Symbol	LL5817	LL5818	LL5819	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	V
Maximum RMS Voltage	V _{RMS}	14	21	28	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	V
Maximum Average Forward Rectified Current @T _L = 90 °C	I _{F(AV)}		1.0		A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}		25		A
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 (Note 1) @ T _A =100 °C	I _R		0.1 5		mA mA
Typical Junction Capacitance (Note 2)	C _j		110		pF
Typical Thermal Resistance (Note 3)	R _{θJA}		80		°C/W
Operating and Storage Temperature Range	T _j ,T _{STG}	- 65 to + 125 / - 65 to + 150			°C

Notes: 1. Pulse Test with PW=300 usec, 1% Duty Cycle

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

3. Thermal Resistance Junction to Ambient

Version: C10

RATINGS AND CHARACTERISTIC CURVES (LL5817 THRU LL5819)


Version: C10