

ROHS

## LL5817 - LL5819

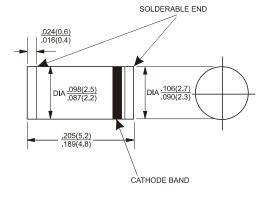
# 1.0 AMP. Surface Mount Schottky Barrier Rectifiers MELF





### **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	VRRM	20	30	40	V
Maximum RMS Voltage	VRMS	14	21	28	V
Maximum DC Blocking Voltage	VDC	20	30	40	V
Maximum Average Forward Rectified Current @T <sub>L</sub> = 90 °C	<b>I</b> F(AV)	1.0			Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	IFSM	25			А
Maximum Instantaneous Forward Voltage @1.0A	VF	0.450	0.550	0.600	V
Maximum Instantaneous Forward Voltage @3.0A	VF	0.750	0.875	0.900	V
$\label{eq:maximum} \begin{array}{llllllllllllllllllllllllllllllllllll$	İR	0.1 5			mA mA
Typical Junction Capacitance ( Note 2 )	Cj	110			pF
Typical Thermal Resistance (Note 3)	Rөja	80			°C/W
Operating and Storage Temperature Range	Тл,Тѕтс	- 65 to + 125 / - 65 to + 150			°C

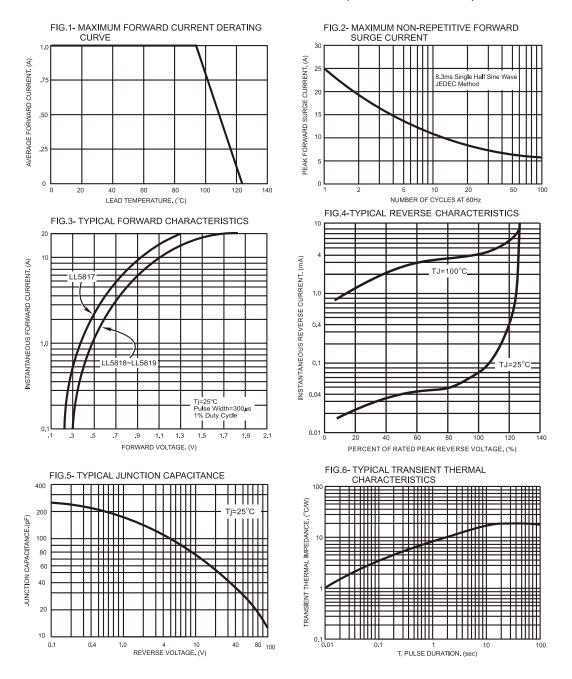
Notes: 1. Pulse Test with PW=300 usec,1% Duty Cycle

- 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