

LL5817 THRU LL5819

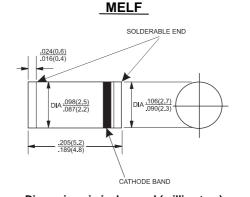
1.0 AMP. Surface Mount Schottky Barrier Rectifiers



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℃ at Rated DC Blocking Voltage @ T _A =100℃	I _R	1.0 10			mA mA
Typical Thermal Resistance (Note 1)	$R\theta_{JA}$	80			°C/W
Typical Junction Capacitance (Note 2)	Cj	110			pF
Operating and Storage Temperature Range	T_J, T_{STG}	- 65 to + 125 / - 65 to + 150			Ç

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)

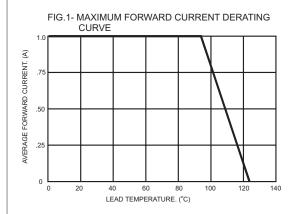
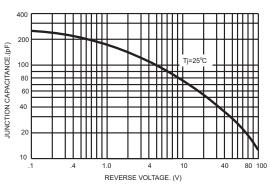


FIG.2- TYPICAL JUNCTION CAPACITANCE





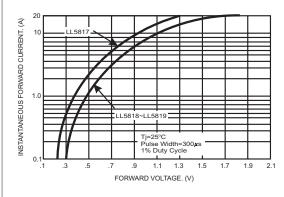


FIG.4- MAXIMUM NON-REPETITIVE FORWARD

