



SM5817 THRU SM5819

1 A Surface Mount Schottky Barrier Rectifiers

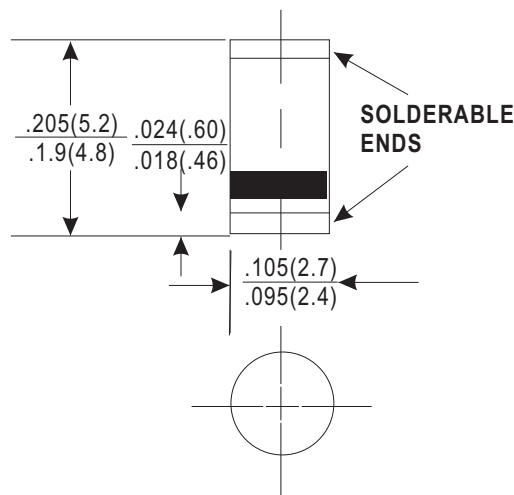
Voltage Range 20 to 40 Volts

Current 1.0 Amperes

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

MELF



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	SM5817	SM5818	SM5819	Units
Maximum Recurrent Peak Reverse Voltage	20	30	40	V
Maximum RMS Voltage	14	21	28	V
Maximum DC Blocking Voltage	20	30	40	V
Maximum Average Forward Rectified Current @ $T_L=90^\circ\text{C}$	1.0			A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	25			A
Maximum Instantaneous Forward Voltage @ 1.0A	0.450	0.550	0.600	V
Maximum Instantaneous Forward Voltage @ 3.0A	0.750	0.875	0.900	V
Maximum DC Reverse Current @ $T_A=25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_A=100^\circ\text{C}$	1.0 10			mA mA
Typical Thermal Resistance R θ JA (Note1)	80			$^\circ\text{C/W}$
Typical Junction Capacitance (Note2)	110	70		pF
Operating and Storage Temperature Range T_J, T_{STG}	-55 to +125 / -55 to +150			$^\circ\text{C}$

Notes:

1. Thermal Resistance from Junction to Ambient
2. Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C

[Http://www.upm.com.tw](http://www.upm.com.tw)

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RATINGS AND CHARACTERISTIC CURVES (SM5817 THRU SM5819)

