



SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 to 40 Volts CURRENT 1.0 Ampere

FEATURES

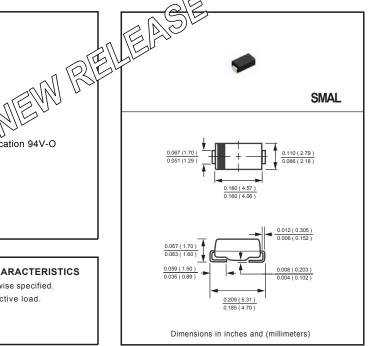
- * Ideal for surface mounted applications
- * Low leakage current
- * Metallurgically bonded construction
- * Mounting position: Any * Weight: 0.057 gram
- weight. 0.057 gran

MECHANICAL DATA

* Epoxy: Device has UL flammability classification 94V-O

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings 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%.

MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted) SYMBOL FM5817L FM5818L UNITS RATINGS FM5819L Volts Maximum Recurrent Peak Reverse Voltage V_{RRM} 20 30 40 14 28 Volts Maximum RMS Voltage V_{RMS} 21 Maximum DC Blocking Voltage 20 40 Volts V_{DC} 30 Maximum Average Forward Rectified Current at 1.0 Amps 10 T_A= 90°C Peak Forward Surge Current 8.3 ms single half sine-wave I_{FSM} 25 Amps superimposed on rated load (JEDEC method) R_{0JA} 88 Typical Thermal Resistance (Note 3) ° C/W $R_{\theta JL}$ 28 Typical Junction Capacitance (Note 1) CJ 110 pF Operating Temperature Range T_J 150 ° C Storage Temperature Range TSTG -55 to + 150 ° C

ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

CHARACTERISTICS		SYMBOL	FM5817L	FM5818L	FM5819L	UNITS
Maximum Instantaneous Forward Voltage at 1.0A DC		VF	.45	.55	.60	Volts
Maximum Instantaneous Forward Voltage at 3.1A DC		VF	.75	.875	.90	Volts
Maximum Average Reverse Current	@T _A = 25°C		0.2			mAmps
at Rated DC Blocking Voltage	@T _A = 100°C	IR	10			mAmps

NOTES : 1. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

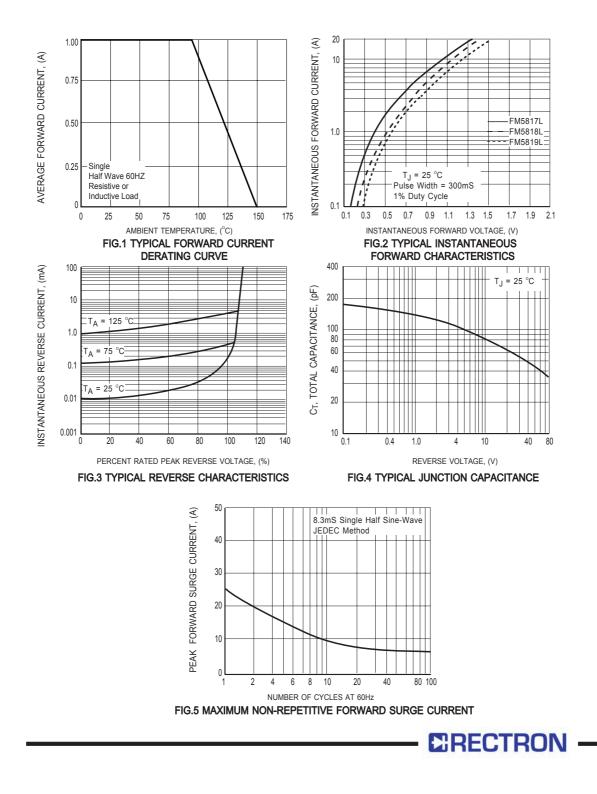
2. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

3. Thermal Resistance : Mounted on PCB.

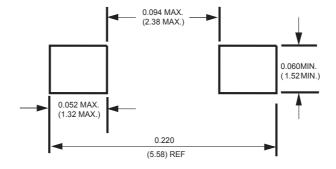
4. Also available in SMBL.

2006-11





Mounting Pad Layout



Dimensions in inches and (millimeters)



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