



SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 to 40 Volts CURRENT 1.0 Ampere

FEATURES

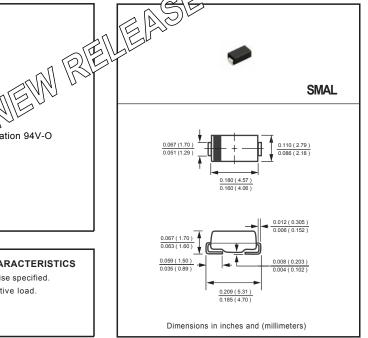
- * Ideal for surface mounted applications
- * Low leakage current
- * Metallurgically bonded construction
- * Mounting position: Any
- * Weight: 0.057 gram

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.



MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

For capacitive load, derate current by 20%.

RATINGS	SYMBOL	FM5817L	FM5818L	FM5819L	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	Volts
Maximum RMS Voltage	V _{RMS}	14	21	28	Volts
Maximum DC Blocking Voltage	V _{DC}	20	30	40	Volts
Maximum Average Forward Rectified Current at $T_A=90^{\circ}C$	Io	1.0			Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM		Amps		
Typical Thermal Resistance (Note 3)	R _{0JA}	88			° C/W
	R _{0JL}	28			
Typical Junction Capacitance (Note 1)	CJ		pF		
Operating Temperature Range	Tj		۰C		
Storage Temperature Range	T _{STG}		°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	la la		mAmps		
at Rated DC Blocking Voltage	@T _A = 100°C	IR IR		mAmps		

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

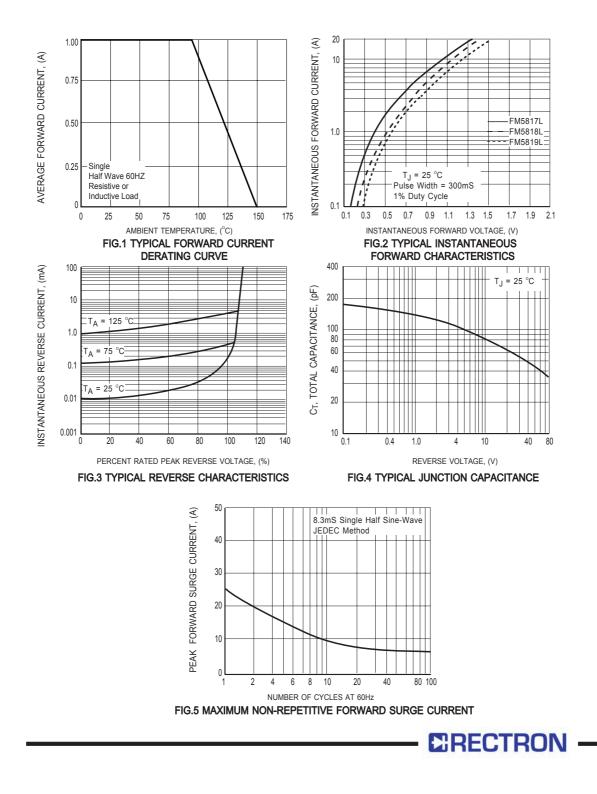
2. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

3. Thermal Resistance : Mounted on PCB.

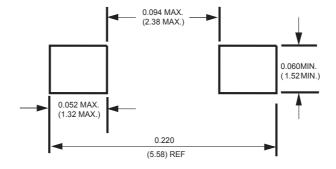
4. Also available in SMBL.

2006-11





Mounting Pad Layout



Dimensions in inches and (millimeters)



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