



## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 to 40 Volts CURRENT 3.0 Ampere

#### **FEATURES**

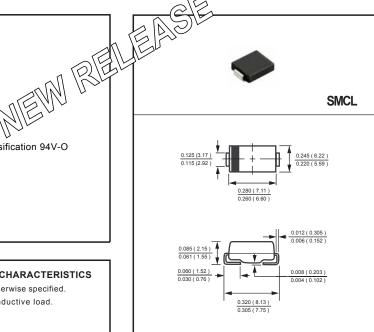
- \* Ideal for surface mounted applications
- \* Low leakage current
- \* Metallurgically bonded construction \* Mounting position: Any
- \* Weight: 0.24 gram
- weight. 0.24 gram

### 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.



Dimensions in inches and (millimeters)

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

For capacitive load, derate current by 20%.

RATINGS	SYMBOL	FM5820L	FM5821L	FM5822L	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	Volts
Maximum Average Forward Rectified Current at Derating Lead Temperature	IO		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 <sub>0JA</sub>	50			• C/W
	R <sub>0JL</sub>	14			
Typical Junction Capacitance (Note 1)	CJ		pF		
Operating Temperature Range	TJ		۰C		
Storage Temperature Range	T <sub>STG</sub>		°C		

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

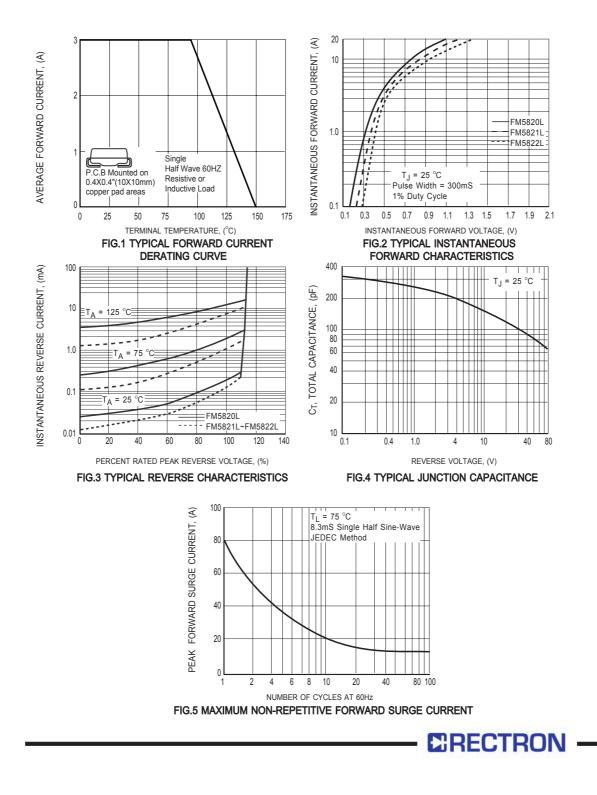
CHARACTERISTICS		SYMBOL	FM5820L	FM5821L	FM5822L	UNITS
Maximum Instantaneous Forward Voltage at 3.0A DC		VF	.475	.500	.525	Volts
Maximum Average Reverse Current	@T <sub>A</sub> = 25°C	la la	0.2			mAmps
at Rated DC Blocking Voltage	@T <sub>A</sub> = 100°C	IR IR		mAmps		

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

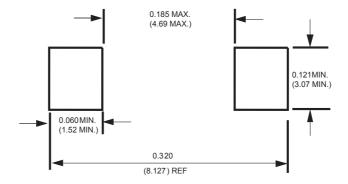
2. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

3. Thermal Resistance : Mounted on PCB.

2006-11



# Mounting Pad Layout



Dimensions in inches and (millimeters)



## **DISCLAIMER NOTICE**

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