

## FM220L THRU FM2200L

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 to 200 Volts CURRENT 2.0 Ampere

### **FEATURES**

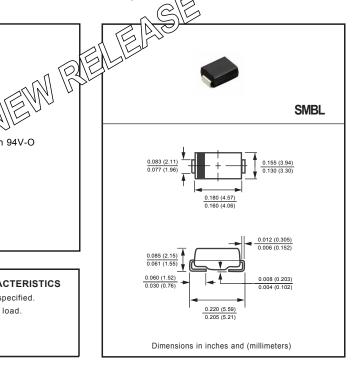
- \* Ideal for surface mounted applications
- \* Low leakage current
- \* Metallurgically bonded construction
- \* Mounting position: Any
- \* Weight: 0.098 gram

### MECHANICAL DATA

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

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25  $^{\circ}$ 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)

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RATINGS	SYMBOL	FM220L	FM230L	FM240L	FM250L	FM260L	FM280L	FM2100L	FM2150L	FM2200L	UNITS
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	20	30	40	50	60	80	100	150	200	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	35	42	56	70	105	140	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	50	60	80	100	150	200	Volts
Maximum Average Forward Rectified Current at Ambient Temperature	I <sub>O</sub>	2.0									Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	60									Amps
Typical Thermal Resistance (Note 1)	R <sub>θJA</sub>	75									°C/W
Typical Thermal Resistance (Note 1)	Røjl	17									°C/W
Typical Junction Capacitance (Note 2)	CJ	130									pF
Operating Temperature Range	TJ	150								٥C	
Storage Temperature Range	T <sub>STG</sub>	-55 to + 150									٥C

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

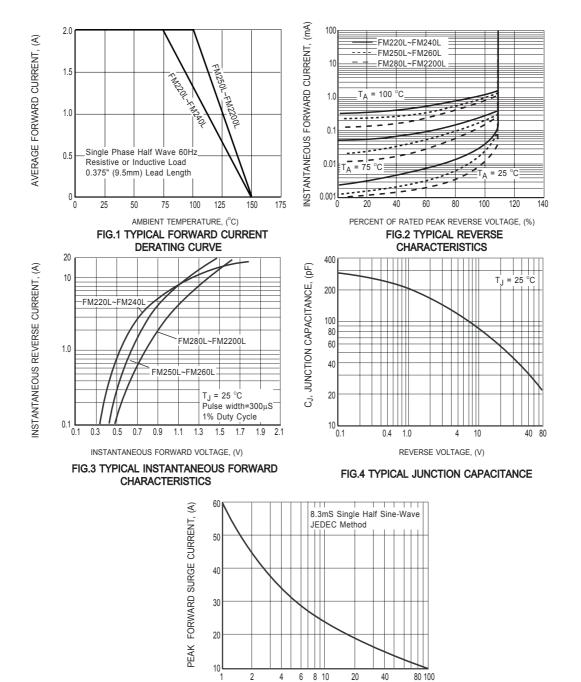
ELECTRICAL CHARACTERISTICS (WIN 20 O MINESS CHICKNESS HOLES)												
CHARACTERISTICS			FM220L	FM230L	FM240L	FM250L	FM260L	FM280L	FM2100L	FM2150L	FM2200L	UNITS
Maximum Instantaneous Forward Voltage at 2.0A DC		VF	.55			.70		.85				Volts
Maximum Average Reverse Current	@T <sub>A</sub> = 25°C	I-	0.2									mA
at Rated DC Blocking Voltage	@T <sub>A</sub> = 100°C	'R					2					mΑ

NOTES: 1. Thermal Resistance :Mounted on PCB.

- 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
- 3. "Fully ROHS compliant","100% Sn plating (Pb-free)".

2006-12

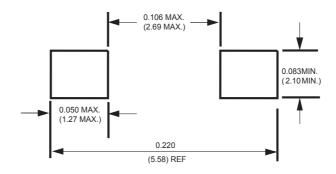
## RATING AND CHARACTERISTICS CURVES (FM220L THRU FM2200L)



NUMBER OF CYCLES AT 60Hz
FIG.5 MAXIMUM NON-REPETITIVE FORWARD
SURGE CURRENT



# **Mounting Pad Layout**



Dimensions in inches and (millimeters)



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