

# **FM520L THRU** FM5200L

### SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

### **VOLTAGE RANGE 20 to 200 Volts CURRENT 5.0 Ampere**

### **FEATURES**

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

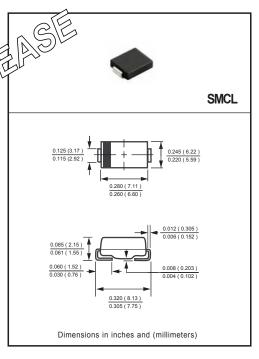
# NEW REVEAS

### **MECHANICAL DATA**

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

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25  $^{\circ}\text{C}$  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)

RATINGS	SYMBOL	FM520L	FM530L	FM540L	FM550L	FM560L	FM580L	FM5100L	FM5150L	FM5200L	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	Io	5.0									Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	150									Amps
Typical Thermal Resistance (Note 1)	R <sub>θJA</sub>	55									°C/W
	RøJL	17									
Typical Junction Capacitance (Note 2)	CJ	200									pF
Operating Temperature Range	TJ	150								٥C	
Storage Temperature Range	T <sub>STG</sub>	-55 to + 150								٥C	

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

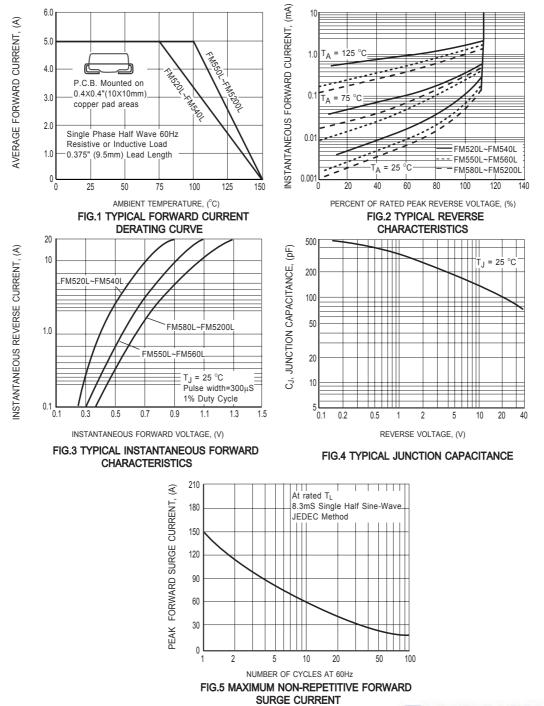
ELECTRICAL CHARACTERIO (1000 ELA-25) O unicos otricimos notos												
CHARACTERIS	SYMBOL	FM520L	FM530L	FM540L	FM550L	FM560L	FM580L	FM5100L	FM5150L	FM5200L	UNITS	
Maximum Instantaneous Forward Voltage at 5.0A DC		VF	.55			.75		.85				Volts
Maximum Average Reverse Current	@T <sub>A</sub> = 25°C	1-	0.2									mA
at Rated DC Blocking Voltage	@T <sub>A</sub> = 100°C	'R					2					mΑ

NOTES: 1. Thermal Resistance: Mounted on PCB.

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

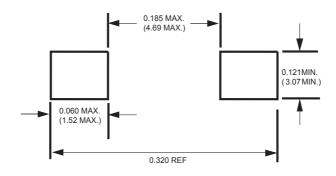
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## RATING AND CHARACTERISTICS CURVES (FM520L THRU FM5200L)





# **Mounting Pad Layout**



Dimensions in inches and (millimeters)



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