

FM220L THRU FM2200L

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 to 200 Volts CURRENT 2.0 Ampere

FEATURES

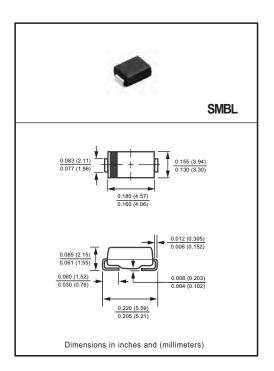
- * Ideal for surface mounted applications
- * Low leakage current
- * Metallurgically bonded construction
- * Mounting position: Any
- * Weight: 0.098 gram

MECHANICAL DATA

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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. Resistive or inductive load.



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

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 _{RMS}	14	21	28	35	42	56	70	105	140	Volts
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	100	150	200	Volts
Maximum Average Forward Rectified Current at Ambient Temperature							Amps				
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	60 A						Amps			
Typical Current Square Time	I ² T	14.9					A ² S				
Typical Thermal Resistance (Note 1)	RθJA	75							°C/W		
Typical Thermal Resistance (Note 1)	R _{θJL}	17							°C/W		
Typical Junction Capacitance (Note 2)	CJ	130								pF	
Operating Temperature Range T _J				150							٥C
Storage Temperature Range	T _{STG}	-55 to + 150					٥C				

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

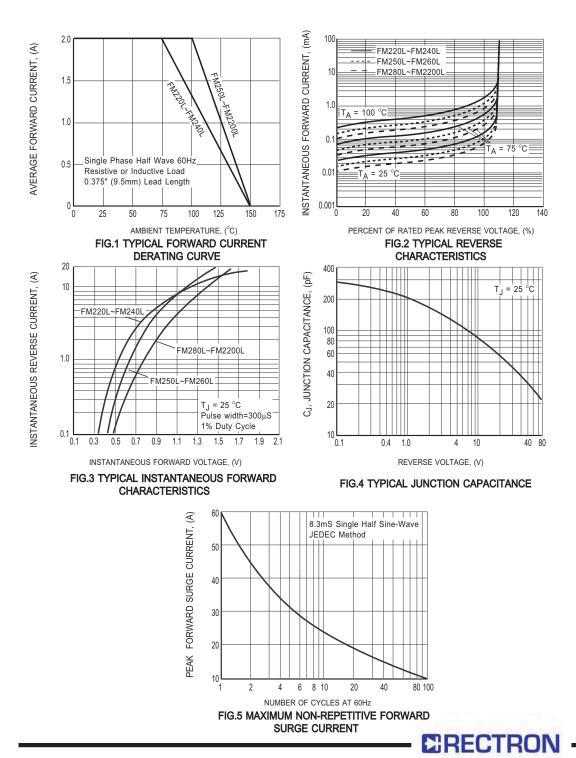
CHARACTERIS	SYMBOL	FM220L	FM230L	FM240L	FM250L	FM260L	FM280L	FM2100L	FM2150L	FM2200L	UNITS
Maximum Instantaneous Forward Voltage	V _F		.55		.7	70	.85				Volts
Maximum Average Reverse Current	@T _A = 25°C	0.2							mA		
at Rated DC Blocking Voltage	@T _A = 100°C	IR.	2								mA

NOTES: 1. Thermal Resistance :Mounted on PCB.

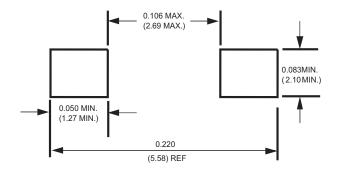
- 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
- 3. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

2009-09 REV: A

RATING AND CHARACTERISTICS CURVES (FM220L THRU FM2200L)



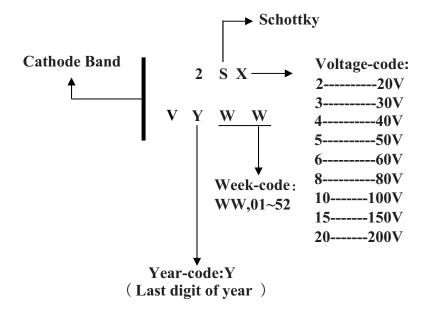
Mounting Pad Layout



Dimensions in inches and (millimeters)



Marking Description



PACKAGING OF DIODE AND BRIDGE RECTIFIERS

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
SMB	-T	500	2,000			178	390*205*310	16,000	
SMB	-W	3,000	6,000			330	360*355*360	48,000	13.90

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