

FM320L THRU FM3200L

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 to 200 Volts CURRENT 3.0 Ampere

FEATURES

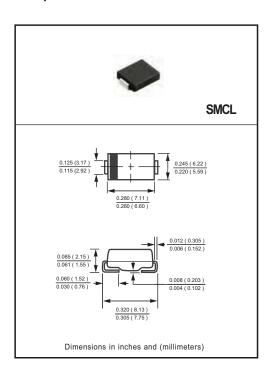
- * Ideal for surface mounted applications
- * Low leakage current
- * Metallurgically bonded construction
- * Mounting position: Any
- * Weight: 0.24 gram

MECHANICAL DATA

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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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



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

RATINGS	SYMBOL	FM320L	FM330L	FM340L	FM350L	FM360L	FM380L	FM3100L	FM3150L	FM3200L	UNITS
Maximum Recurrent Peak Reverse Voltage		20	30	40	50	60	80	100	150	200	Volts
Maximum RMS Voltage		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}	SM 80						Amps			
Typical Current Square Time	al Current Square Time I ² T 26.5							A ² S			
Typical Thermal Resistance (Note 1)	RθJA	55								°C/W	
Typical Thermal Resistance (Note 1)	R _{θJL}	17									
Typical Junction Capacitance (Note 2)	CJ	200							pF		
Operating Temperature Range	TJ	150						°C			
Storage Temperature Range	T _{STG}	-55 to + 150						٥C			

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

CHARACTERIS	SYMBOL	FM320L	FM330L	FM340L	FM350L	FM360L	FM380L	FM3100L	FM3150L	FM3200L	UNITS
Maximum Instantaneous Forward Voltage	V _F		.55		.7	75	.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

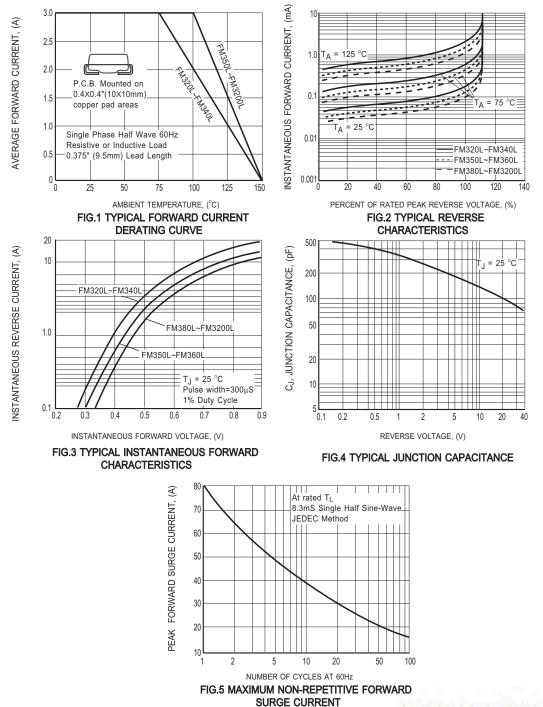
NOTES: 1. Thermal Resistance: Mounted on PCB.

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

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

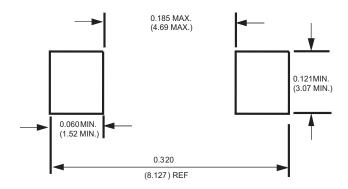
2009-09 REV: A

RATING AND CHARACTERISTICS CURVES (FM320L THRU FM3200L)





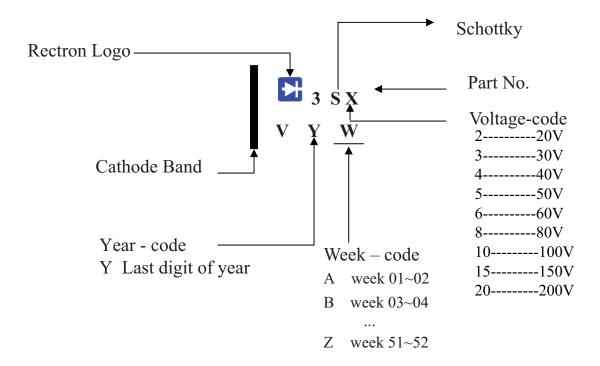
Mounting Pad Layout



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)
SMC	-T	500	1,500			178	390*205*310	12,000	6.65
SMC	-W	3,000	3,000			330	360*355*360	24,000	11.50

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