





SURFACE MOUNT GLASS PASSIVATED SILICON RECTIFIER VOLTAGE RANGE 50 to 1000 Volts CURRENT 2.0 Ampere

FEATURES

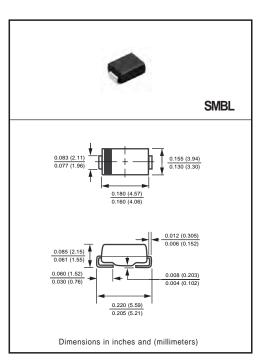
- * Glass passivated device
- * Ideal for surface mounted applications
- * Low leakage current
- * Metallurgically bonded construction
- * Mounting position: Any
- * Weight: 0.098 gram

MECHANICAL DATA

* Epoxy : Device has UL flammability classification 94V-0

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)

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RATINGS	SYMBOL	FM201L	FM202L	FM203L	FM204L	FM205L	FM206L	FM207L	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at Ambient Temperature	Io				2.0				Amps
rak Forward Surge Current 8.3 ms single half sine-wave perimposed on rated load (JEDEC method) IFSM 50					Amps				
Typical Current Squared Time	I ² T				10.3	10.3			
Typical Thermal Resistance (Note 1)		53						°C/W	
Typical Thermal Resistance (Note 1)	R _{θJL}	16						°C/W	
Typical Junction Capacitance (Note 2)		30						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)

CHARACTERISTICS SY			FM201L	FM202L	FM203L	FM204L	FM205L	FM206L	FM207L	UNITS
Maximum Instantaneous Forward Voltag	e at 2.0A DC	V _F				1.1				
Maximum Average Reverse Current	@T _A = 25°C	1-				5.0				μА
at Rated DC Blocking Voltage	@T _A = 100°C	I _R				125				μА

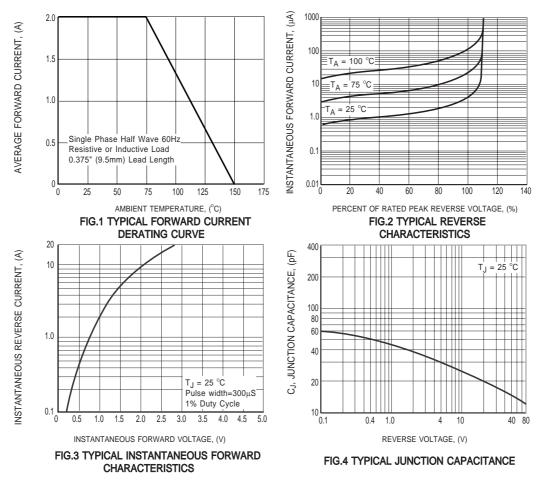
NOTES: 1. Thermal Resistance: Mounted on PCB.

- 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
- "Fully ROHS compliant", "100% Sn plating (Pb-free)".
 Available in Halogen-free epoxy by adding suffix -HF after the part nbr.

2010-05

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RATING AND CHARACTERISTICS CURVES (FM201L THRU FM207L)



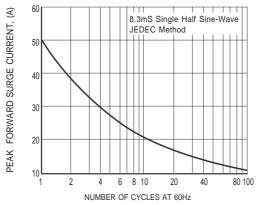
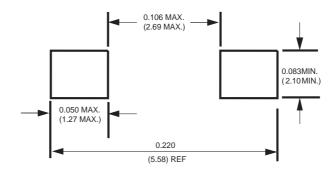


FIG.5 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



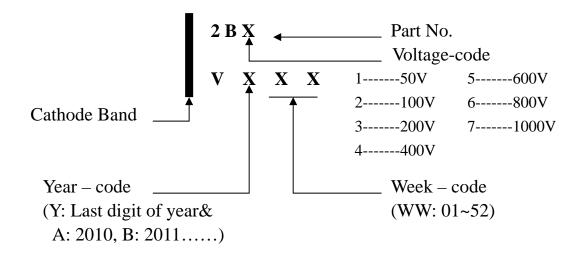
Mounting Pad Layout



Dimensions in inches and (millimeters)



Marking Description



PACKAGING OF DIODE AND BRIDGE RECTIFIERS

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	COMPONENT SPACE(mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)		GROSS WEIGHT(Kg)
SMBL	-T	500			178	390*205*310	16,000	
SMBL	-W	3,000			330	355*360*350	48,000	13.90



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