



#### SURFACE MOUNT

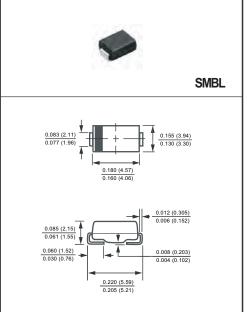
**GLASS PASSIVATED SILICON RECTIFIER** VOLTAGE RANGE 50 to 1000 Volts CURRENT 2.0 Ampere

#### 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



Dimensions in inches and (millimeters)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

RATINGS	SYMBOL	FM201L	FM202L	FM203L	FM204L	FM205L	FM206L	FM207L	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	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>	50					Amps		
Typical Current Squared Time	Time I <sup>2</sup> T 10.3					A <sup>2</sup> S			
Typical Thermal Resistance (Note 1)	R <sub>OJA</sub>	53							°C/W
Typical Thermal Resistance (Note 1)	R <sub>ØJL</sub>	16							°C/W
Typical Junction Capacitance (Note 2)	30								
Operating Temperature Range	TJ	150							0 C
Storage Temperature Range	T <sub>STG</sub>	-55 to + 150					۰C		

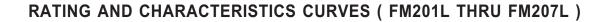
#### ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

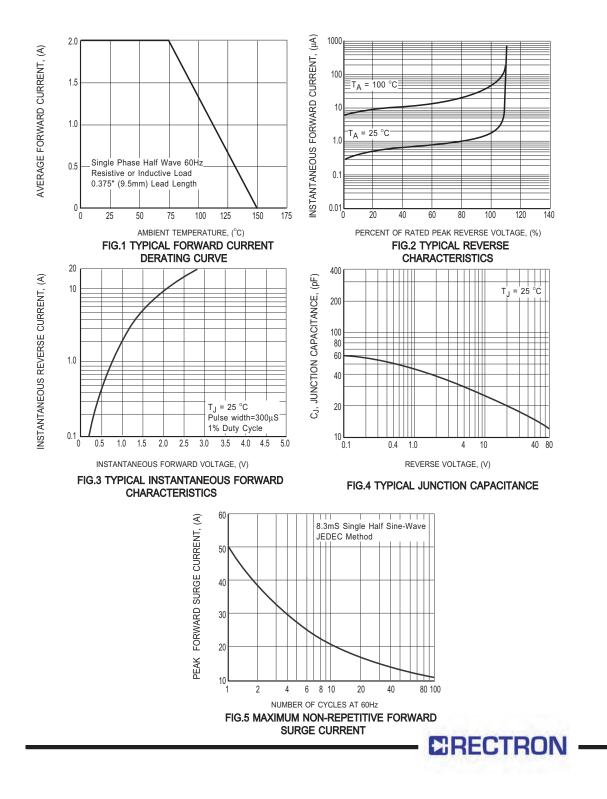
CHARACTERI	SYMBOL	FM201L	FM202L	FM203L	FM204L	FM205L	FM206L	FM207L	UNITS		
Maximum Instantaneous Forward Voltag	VF	1.0									
Maximum Average Reverse Current	@T <sub>A</sub> = 25°C	1-	1.0								
at Rated DC Blocking Voltage	@T <sub>A</sub> = 100°C	IR -	50								
									2014-11 REV: A		

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

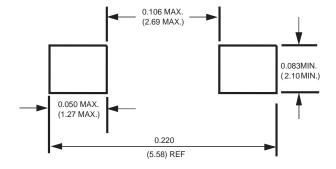
3. "Fully ROHS compliant","100% Sn plating (Pb-free)".

4. Available in Halogen-free epoxy by adding suffix -HF after the part nbr.





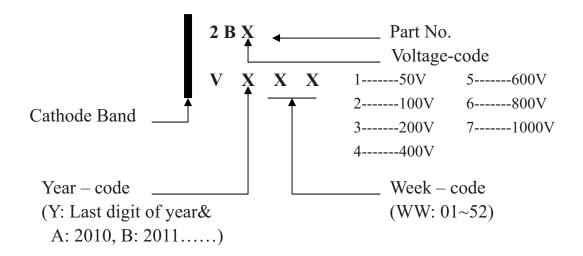
# **Mounting Pad Layout**



Dimensions in inches and (millimeters)



# **Marking Description**



# **CRECTRON** —

# 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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