



GEN

SURFACE MOUNT **GLASS PASSIVATED SILICON RECTIFIER**

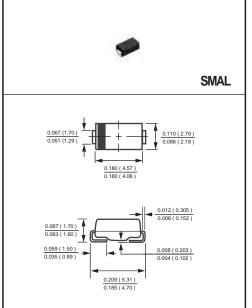
VOLTAGE RANGE 50 to 1000 Volts CURRENT 1.0 Ampere

FEATURES

- * Glass passivated device
- * Ideal for surface mounted applications
- * Low leakage current
- * Metallurgically bonded construction
- * Mounting position: Any
- * Weight: 0.057 gram

MECHANICAL DATA

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



Dimensions in inches and (millimeters)

REV:B

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	FM4001L	FM4002L	FM4003L	FM4004L	FM4005L	FM4006L	FM4007L	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		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	Ι _Ο	1.0						Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	30					Amps		
Current Squarad Time	l ² t	3.7						A ² /Sec	
ypical Thermal Resistance (Note 1)		80 85							°C/W
Typical Thermal Resistance (Note 1)	R _{θJL}	26 30							°C/W
Typical Junction Capacitance (Note 2)	CJ	15						pF	
Operating Temperature Range	TJ	150					٥C		
Storage Temperature Range	T _{STG}	-55 to + 150					٥C		

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

			,							
CHARACTERI	SYMBOL	FM4001L	FM4002L	FM4003L	FM4004L	FM4005L	FM4006L	FM4007L	UNITS	
Maximum Instantaneous Forward Voltage at 1.0A DC V _F 1.1								Volts		
Maximum Average Reverse Current	@T _A = 25°C		5.0							μA
at Rated DC Blocking Voltage	@T _A = 100°C	I _R				100				μA
IOTES 1 Thermal Resistance Mounted on PCB 2								010-05		

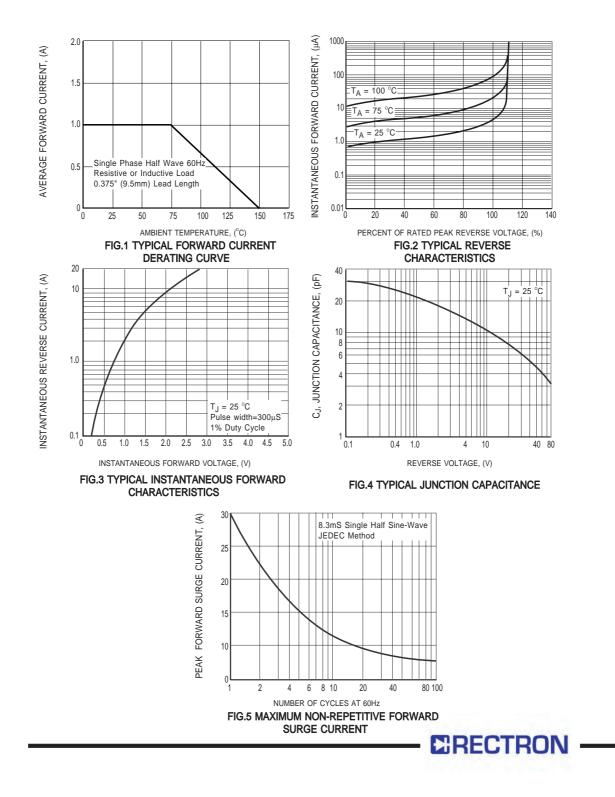
NOTES: 1. Thermal Resistance :Mounted on PCB.

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

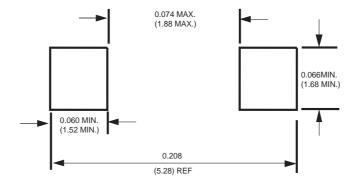
3. "Fully ROHS compliant","100% Sn plating (Pb-free)".

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





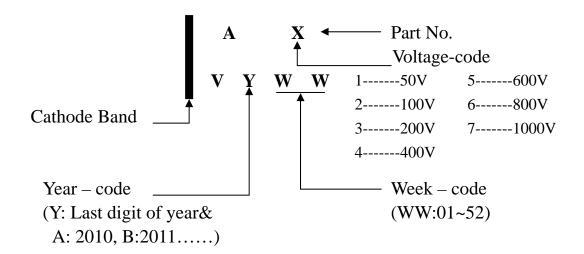
Mounting Pad Layout



Dimensions in inches and (millimeters)



Marking Description



ERECTRON -

PACKAGING OF DIODE AND BRIDGE RECTIFIERS

PACKAGE	PACKING CODE	EA PER REEL	COMPONENT SPACE(mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
SMAL	-T	1,500			178	390*205*310	48,000	8.40
SMAL	-W	5,000			330	355*360*350	80,000	14.20



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