

SURFACE MOUNT SILICON RECTIFIER

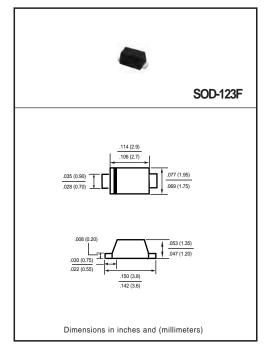
VOLTAGE RANGE 50 to 1000 Volts CURRENT 1.0 Ampere

FEATURES

- * Ideal for surface mounted applications
- * Low leakage current
- * Metallurgically bonded construction
- * Mounting position: Any
- * Weight: 0.016 gram

MECHANICAL DATA

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



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	SA1	SA2	SA3	SA4	SA5	SA6	SA7	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	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 TA = 55°C	Ι _Ο	l ₀ 1.0					Amps		
Peak Forward Surge Current IFM(surge): 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	25				Amps			
Current Squarad Time	l ² t	2.5						A ² /Sec	
Typical Thermal Resistance (Note 3)	R _{0JA}	85							°C/W
Typical memial Resistance (Note 3)	R _{0JL}	25 30							
Typical Junction Capacitance (Note 1)	CJ	8						pF	
Operating and Storage Temperature Range	TJ, TSTG	-55 to + 150						٥C	

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

CHARACTERISTICS	SYMBOL	SA1	SA2	SA3	SA4	SA5	SA6	SA7	UNITS	
Maximum Forward Voltage at 1.0A DC	VF	1.1							Volts	
Maximum DC Average Reverse Current at	@T _A = 25°C	le	5.0							uAmps
Rated DC Blocking Voltage	@T _A = 100°C	אי [50							uAmps

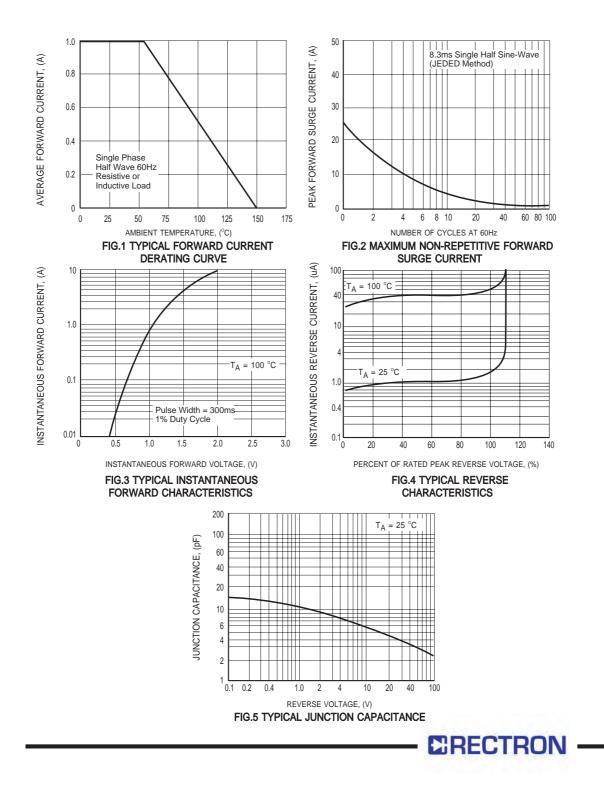
NOTES : 1. Measured at 1.0 MHz and applied average voltage of 4.0VDC

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

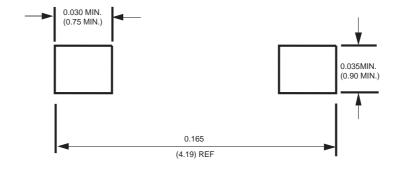
3. Thernal Resistance: Mounted on PCB.

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

2010-05 REV:B



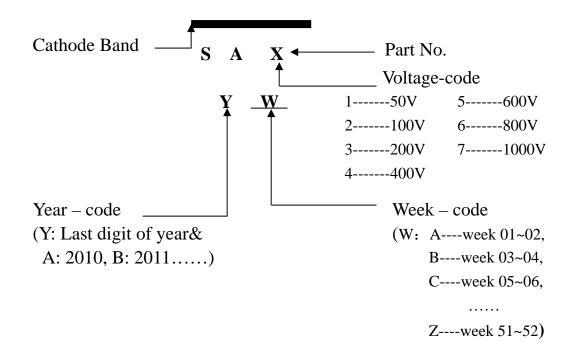
Mounting Pad Layout



Dimensions in inches and (millimeters)



Marking Description



CRECTRON -

PACKAGING OF DIODE AND BRIDGE RECTIFIERS

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	COMPONENT SPACE(mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)		GROSS WEIGHT(Kg)
SOD-123F	-W	2,500			178	390*205*310	100,000	5.804



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