



SURFACE MOUNT SILICON RECTIFIER

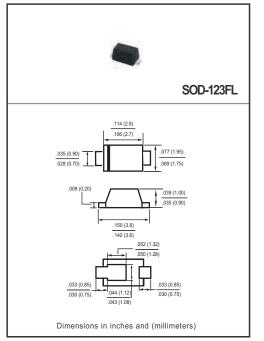
VOLTAGE RANGE 50 to 1000 Volts CURRENT 1.0 Ampere

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	SA1L	SA2L	SA3L	SA4L	SA5L	SA6L	SA7L	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	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	I ₀	1.0							Amps
Peak Forward Surge Current IFM(surge): 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	30						Amps	
Current Squarad Time	rad Time I ² t 2.5					A ² /Sec			
Typical Thermal Resistance (Note 3)	R _{eJA}	85							° C/W
Typical memial resistance (note 5)	R _{OJL}	25 30							
Typical Junction Capacitance (Note 1)	CJ	8			pF				
Operating and Storage Temperature Range	Tj, Tstg	G -55 to + 150						٥C	

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

CHARACTERISTICS	SYMBOL	SA1L	SA2L	SA3L	SA4L	SA5L	SA6L	SA7L	UNITS	
Maximum Forward Voltage at 1.0A DC	VF	1.0							Volts	
Maximum DC Average Reverse Current at	@T _A = 25°C	l _R	1.0							uAmps
Rated DC Blocking Voltage	@T _A = 100°C	, 'R	50							uAmps
NOTES : 1. Measured at 1.0 MHz and applied average voltage of 4.0VDC									2015-02	

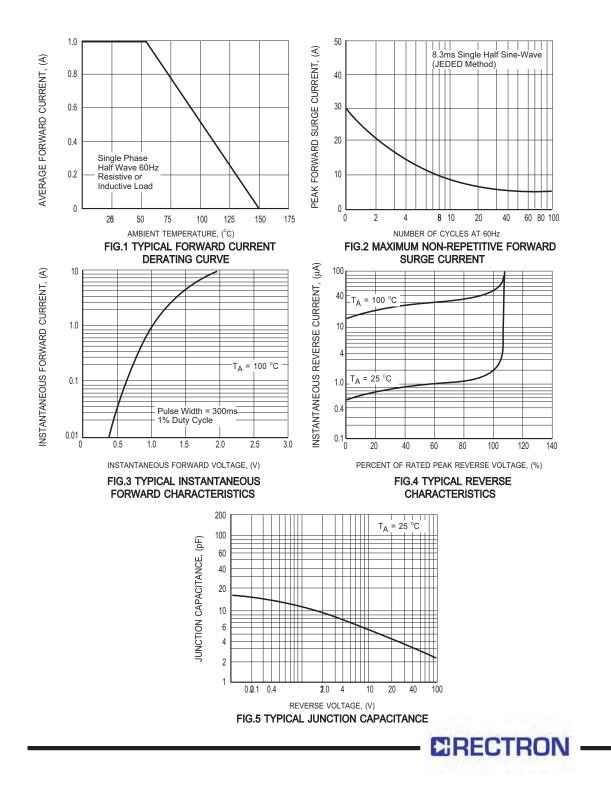
NOTES : 1. Measured at 1.0 MHz and applied average voltage of 4.0VDC

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

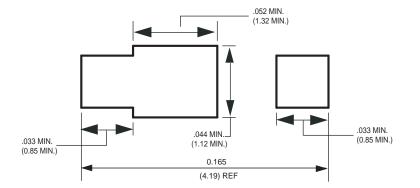
3. Thernal Resistance: Mounted on PCB.

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

REV:B



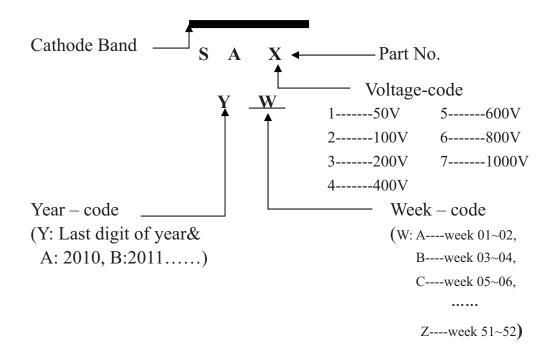
Mounting Pad Layout



Dimensions in inches and (millimeters)



Marking Description



CRECTRON -

PACKAGING OF DIODE AND BRIDGE RECTIFIERS

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
SOD-123F/ SOD-123FL	-W	3,000	15,000			178	390*205*31	120,000	6.964

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