



SURFACE MOUNT SILICON RECTIFIER

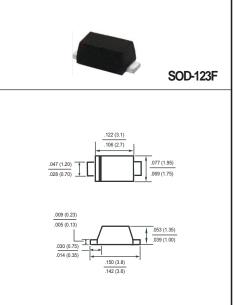
VOLTAGE RANGE 50 to 1000 Volts CURRENT 1.0 Ampere

FEATURES

- * Ideal for surface mounted applications
- * Low leakage current
- * Metallurgically bonded construction
- * P/N suffix V means AEC-Q101 qualified, e.g.SA1V
- * P/N suffix V means Halogen-free

MECHANICAL DATA

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



Ratings at 25 °C ambient temperature unless otherwise specified. resistive or inductive load.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Dimensions in inches and (millimeters)

MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

RATINGS	SYMBOL	SA1	SA2	SA3	SA4	SA5	SA6	SA7	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 TL = 125 °C	ctified Current at TL = 125 °C I _O 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	l ² t	2.5							A ² Sec
Typical Thermal Resistance (Note 3)	R _{0JA}	85							° C/W
Typical memai Resistance (Note 5)	R _{0JL}	25 30							
Typical Junction Capacitance (Note 1)	CJ				8			pF	
Operating and Storage Temperature Range	TJ, TSTG	-55 to + 175					٥C		

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

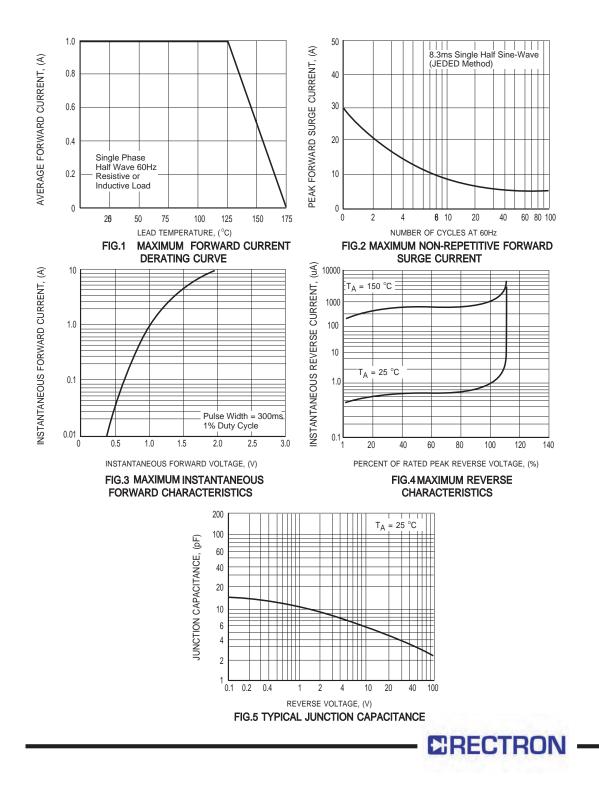
CHARACTERISTICS	SYMBOL	SA1	SA2	SA3	SA4	SA5	SA6	SA7	UNITS	
Maximum Forward Voltage at 1.0A DC	VF	1.0							Volts	
Maximum DC Average Reverse Current at	@T _A = 25°C	l _R				1.0				uAmps
Rated DC Blocking Voltage	@T _A = 150°C	אי	1.0							

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

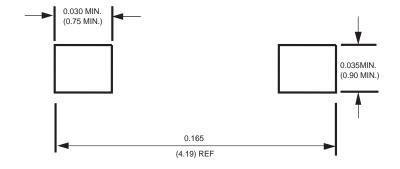
2. "ROHS compliant".

3. Thernal Resistance: Mounted on PCB.

2022-10 REV: F



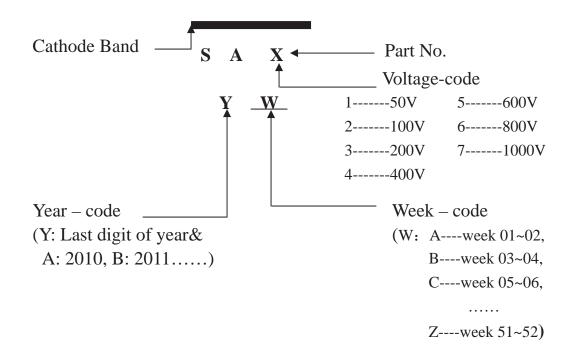
Mounting Pad Layout



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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