

05A1 THRU 05A7

SURFACE MOUNT SILICON RECTIFIER

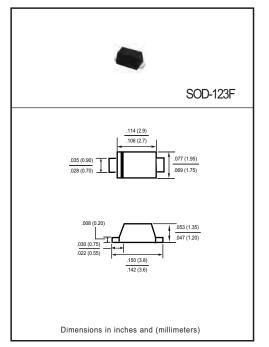
VOLTAGE RANGE 50 to 1000 Volts CURRENT 0.5 Ampere

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)

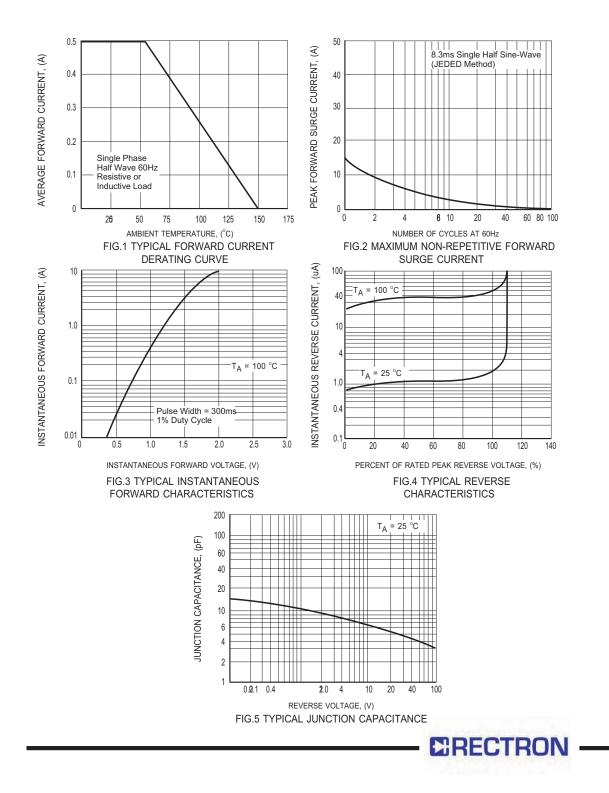
MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)				-							
RATINGS	SYMBOL	05A1	05A2	05A3	05A4	05A5	05A6	05A7	UNITS		
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts		
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts		
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	800 1000			
Maximum Average Forward Rectified Current at TA = 55°C	I _O				0.5			Amps			
Peak Forward Surge Current IFM(surge): 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	15						Amps			
Current Squarad Time	I ² T				0.9						
Typical Thermal Resistance (Note 3)	R _{0JA}	85							• C/W		
Typical memail resistance (Note 5)	R _{0JL}	25 30									
Typical Junction Capacitance (Note 1)	CJ				8			pF			
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to + 150						٥C			

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

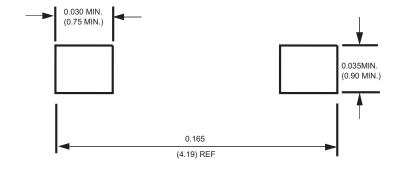
CHARACTERISTICS	SYMBOL	05A1	05A2	05A3	05A4	05A5	05A6	05A7	UNITS	
Maximum Forward Voltage at 0.5A DC		V _F 1.0					Volts			
Maximum Full Load Reverse Current, Full cycle Average at T _A =55°C		30							uAmps	
Maximum DC Average Reverse Current at	@T _A = 25°C	IR IR	1.0							uAmps
Rated DC Blocking Voltage	@T _A = 100°C		50							uAmps
NOTES : 1. Measured at 1.0 MHz and applied aver 2 "Eully ROHS compliant", "100% Sn r									2014-11 REV:B	

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

3. Thernal Resistance: Mounted on PCB.



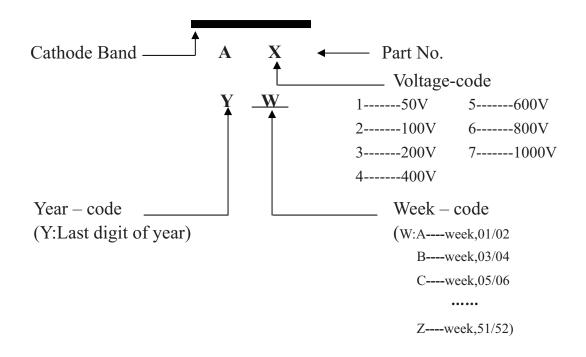
Mounting Pad Layout



Dimensions in inches and (millimeters)



Marking Description





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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