

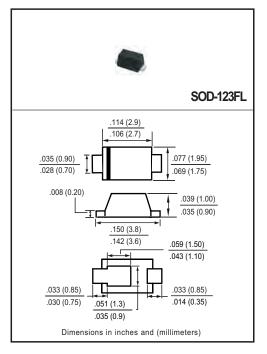
### SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER VOLTAGE RANGE 20 to 40 Volts CURRENT 0.5 Ampere

### FEATURES

- \* Low power loss, high efficiency
- \* Low leakage
- \* Low forward voltage
- \* High current capability
- \* High speed switching
- \* High surge capabitity
- \* High reliability

#### **MECHANICAL DATA**

- \* Epoxy: Device has UL flammability classification 94V-O
- \* Mounting position: Any
- \* Weight: 0.015 gram



#### Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25 °C ambient temperature unless otherwise specified.

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

RATINGS	SYMBOL	05SSL20L	05SSL20L 05SSL30L 05SSL40L		UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	20 30		40	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	14 21		28	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	40	40	Volts
Maximum Average Forward Rectified Current .375" (9.5mm) lead length at T <sub>A</sub> =100°C	Io	0.5			Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	60			Amps
Typical Current Squared Time	I <sup>2</sup> T	14.9			A <sup>2</sup> S
Typical Junction Capacitance (Note1)	CJ	110			pF
Typical Thermal Resistance (Note 3)	R <sub>0JA</sub>	110			° C/W
Typical memai Resistance (Note 3)	R <sub>0JL</sub>				
Operating Temperature Range	TJ	-55 to + 150			° C
Storage Temperature Range	T <sub>STG</sub>	-55 to + 150			٥C

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

CHARACTERISTICS	SYMBOL	05SSL20L	05SSL30L	05SSL40L	UNITS
Maximum Instantaneous Forward Voltage at 0.5A	VF	0.30			Volts
Maximum Average Reverse Current	@T <sub>A</sub> = 25°C	la la		mAmps	
at Rated DC Blocking Voltage	$@T_A = 150^{\circ}C$	<sup>I</sup> R		mAmps	

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

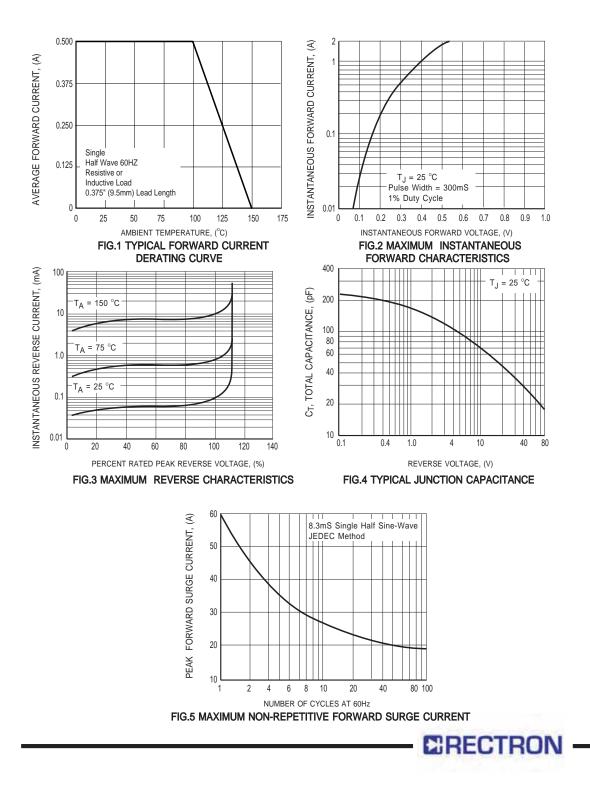
2. "ROHS compliant".

3. Thermal resistance: Mounted on PCB.

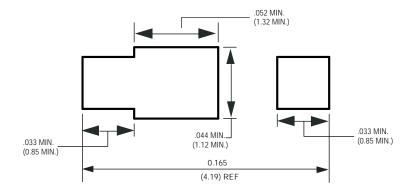
4. Available in Halogen-free epoxy by adding suffix -HF after the part nbr.

2019-03 REV: A





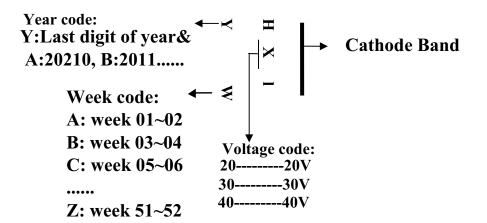
## **Mounting Pad Layout**



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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