



### SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

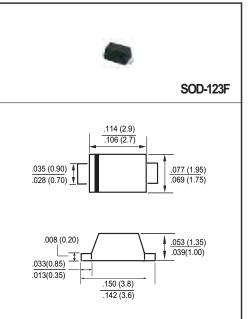
VOLTAGE RANGE 100 Volts CURRENT 1.0 Ampere

#### FEATURES

- \* Low power loss, high efficiency
- \* Low leakage
- \* Low forward voltage drop
- \* High current capability
- \* High speed switching
- \* High surge capabitity
- \* High reliability
- \* Guard ring construction on dice
- \* Anti-ESD

#### MECHANICAL DATA

- \* Epoxy: Device has UL flammability classification 94V-O
- \* Mounting position: Any
- \*Weight:0.018 gram (Approx.)
- \* Flat lead frame



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

Dimensions in inches and (millimeters)

RATINGS	SYMBOL	SSL100	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	100	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	70	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	100	Volts
Maximum Average Forward Rectified Current $@T_A=75 \degree C$	IO	1.0	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	50	Amps
Typical Current Square Time	I <sup>2</sup> T	10.37	A <sup>2</sup> S
Typical Thermal Resistance (Note 3)	R <sub>θJA</sub>	110	°C/W
Typical memai Resistance (Note 5)	R <sub>θJL</sub>	30	
Operating Temperature Range	TJ	150	° C
Storage Temperature Range	T <sub>STG</sub>	-55 to + 150	° C
Total Capacitance (Note 1)	Ст	75	pF

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

CHARACTERISTICS		SYMBOL	SSL100	UNITS
Maximum Instantaneous Forward Voltage at 1.0A	C	VF	.60	Volts
Maximum Average Reverse Current	@TA = 25°C		100	uAmps
at Rated DC Blocking Voltage	@Ta =125°C	I IR	4	mAmps

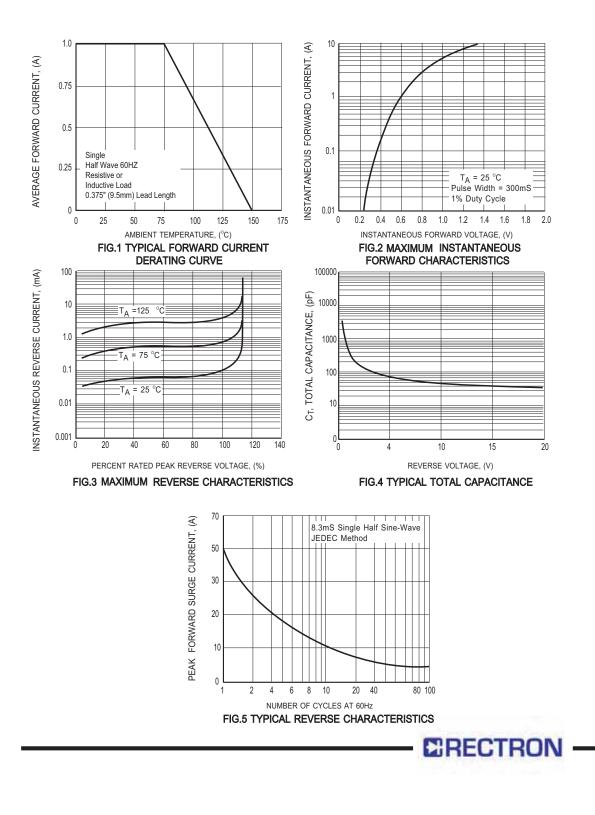
NOTES: 1. Measured at 1 MHz and applied reverse voltage of 4 Volts.

2.ROHS compliant"

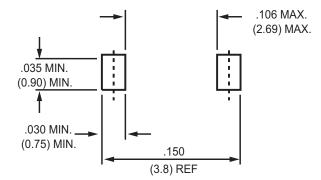
3. Thermal Resistance: Mounted on PCB.

2020-04 REV:A





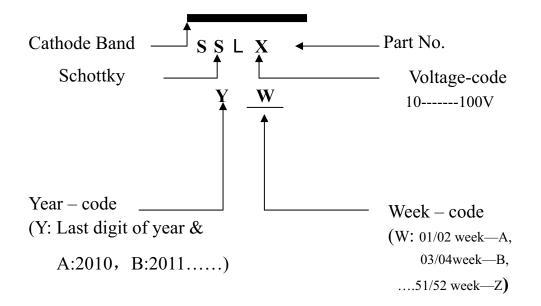
## **Mounting Pad Layout**



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	-T	3,000	15,000			178	390*205*31	120,000	6.964

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