

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

## **VOLTAGE 100Volts CURRENT 2.0 Amperes**

#### **FEATURES**

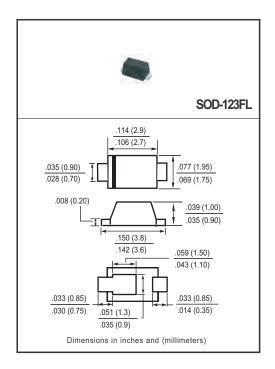
- \* Low power loss, high efficiency
- \* Low leakage
- \* Low forward voltage drop
- \* High current capability
- \* High speed switching
- \* High surge capabitity
- \* High reliability
- \* Guard ring construction on dic

### **MECHANICAL DATA**

- \* Epoxy: Device has UL flammability classification 94V-O
- \* Mounting position: Any \* Weight: 0.01 gram (Approx.)
- \* Flat lead frame

### 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	2SS100L	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 $$ @ $T_{C}\text{=}75^{\circ}\text{C}$	Io	2.0	Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	60	Amps	
Current Squared Time	l <sup>2</sup> t	14.94	A <sup>2</sup> /Sec	
Typical Thermal Resistance (Note 3)	R <sub>θ</sub> JA	59	°C/W	
Typical Thermal Nesistance (Note 3)	R <sub>θJL</sub>	44		
Operating Temperature Range	TJ	-55 to + 150	°C	
Storage Temperature Range	T <sub>STG</sub>	-55 to + 150	٥C	
Total Capacitance (Note 1)	C <sub>T</sub>	75	pF	

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

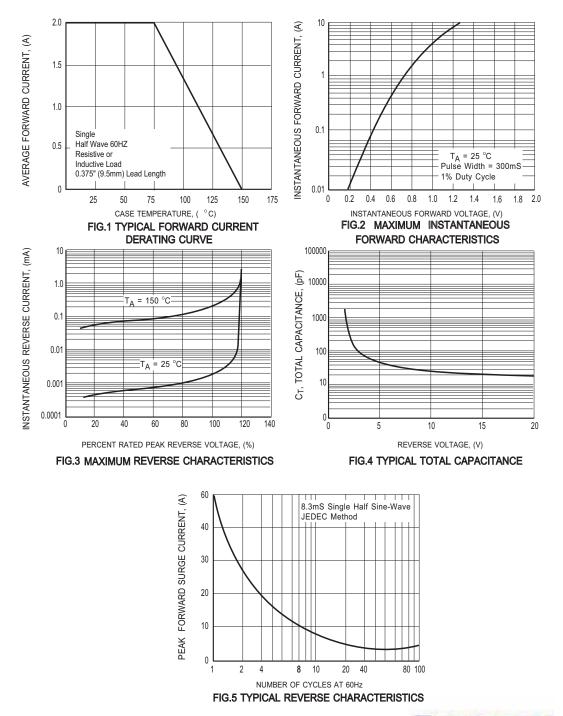
CHARACTERISTICS		SYMBOL	2SS100L	UNITS
Maximum Instantaneous Forward Voltage at 2.0A	DC	VF	0.85	Volts
Maximum Average Reverse Current	@TA = 25°C	1-	2	μAmps
at Rated DC Blocking Voltage	@Ta = 150°C	IR IR	0.2	mAmps

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

- 2. " ROHS compliant"
- 3. Thermal Resistance: Mounted on PCB.
- 4. Available in Halogen-free epoxy by adding suffix -HF after the part nbr.

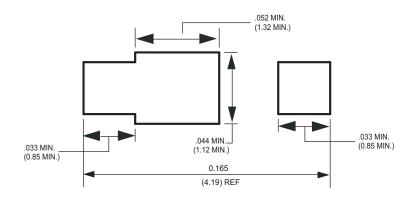
2020-11

# RATING AND CHARACTERISTICS CURVES (2SS100L)





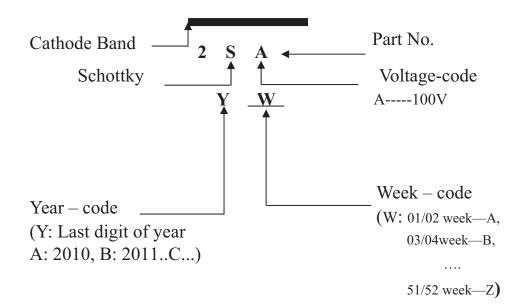
# **Mounting Pad Layout**



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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