**SS150 SS200** 

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

## VOLTAGE 150 to 200 Volts CURRENT 1.0 Ampere

### **FEATURES**

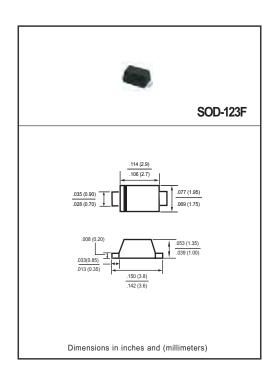
- \* Low power loss, high efficiency
- \* Low leakage
- \* Low forward voltage drop
- \* High current capability
- \* High speed switching
- \* High surge capabitity
- \* High reliability
- \* Guard ring construction on dic
- \* Anti-ESD

### **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  $^{\circ}\text{C}$  ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.



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

RATINGS	SYMBOL	SS150 SS200		UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	150	200	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	105	140	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	150 200		Volts
Maximum Average Forward Rectified Current @ T <sub>A</sub> =75 °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>	25		Amps
Current Squarad Time	l <sup>2</sup> t	2.6		A <sup>2</sup> Sec
Typical Thermal Resistance (Note 3)	R <sub>θ</sub> JA	110		°C/W
Typical Thermal Resistance (Note 6)	R <sub>θ JL</sub>	30		- C/W
Operating Temperature Range	TJ	-55 to + 150		°C
Storage Temperature Range	T <sub>STG</sub>	-55 to + 150		°C
Typical Junction Capacitance (Note 1)	Сл	110		pF

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

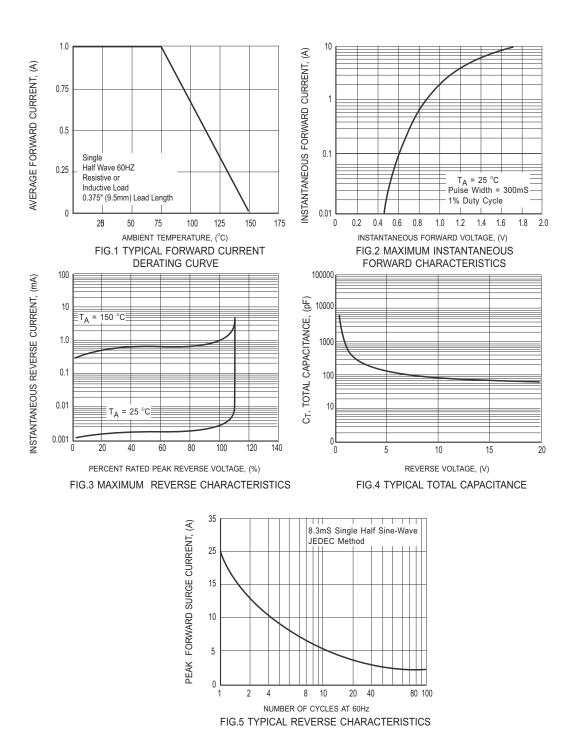
(@					
CHARACTERISTIC	SYMBOL	SS150	SS200	UNITS	
Maximum Instantaneous Forward Voltage at 1.0A DC		VF	0.85		Volts
Maximum Average Reverse Current	@TA = 25°C		2.0		uAmps
at Rated DC Blocking Voltage	@TA = 150 °C	] 'R	1.0		mAmps

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

- 2. "ROHS compliant"
- 3. Mounted on PCB.

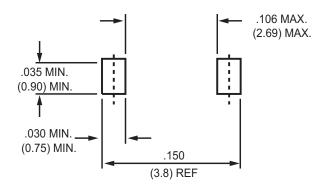
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## RATING AND CHARACTERISTICS CURVES (SS150, SS200)





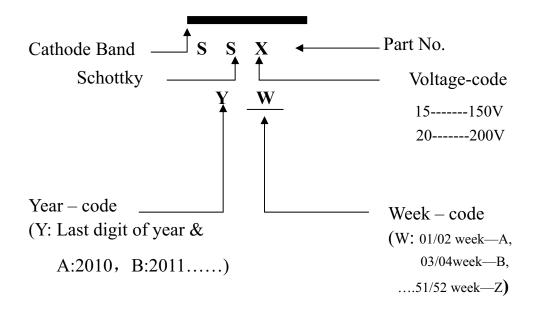
# **Mounting Pad Layout**



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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