

## SS150V SS200V

### SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

### VOLTAGE 150 to 200 Volts CURRENT 1.0 Ampere

#### **FEATURES**

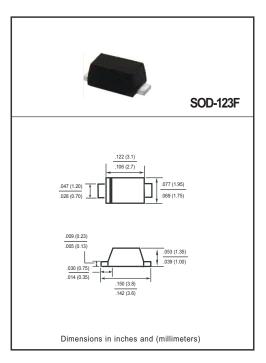
- \* Low power loss, high efficiency
- \* Low leakage
- \* Low forward voltage drop
- \* High current capability
- \* High speed switching
- \* High surge capabitity
- \* High reliability
- \* Guard ring construction on dic
- \* Anti-ESD
- \* P/N suffix V means AEC-Q101 qualified, e.g:SS150V \* P/N suffix V means Halogen-free

#### **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. 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)

IAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)				
RATINGS	SYMBOL	SS150V SS200V		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 $$ @ $T_A$ =75 $^{\circ}$ C	Io	1.0		Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	25		Amps
Current Squarad Time	I <sup>2</sup> t	2.6		A <sup>2</sup> Sec
Typical Thermal Resistance (Note 3)	R <sub>θJA</sub>	110		°C/W
Typical Thormal Resistance (Note 6)	R <sub>θ JL</sub>	30		
Operating Temperature Range	TJ	-55 to + 150		°C
Storage Temperature Range	T <sub>STG</sub>	-55 to + 150		۰c
Typical Junction Capacitance (Note 1)	CJ	110		pF

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

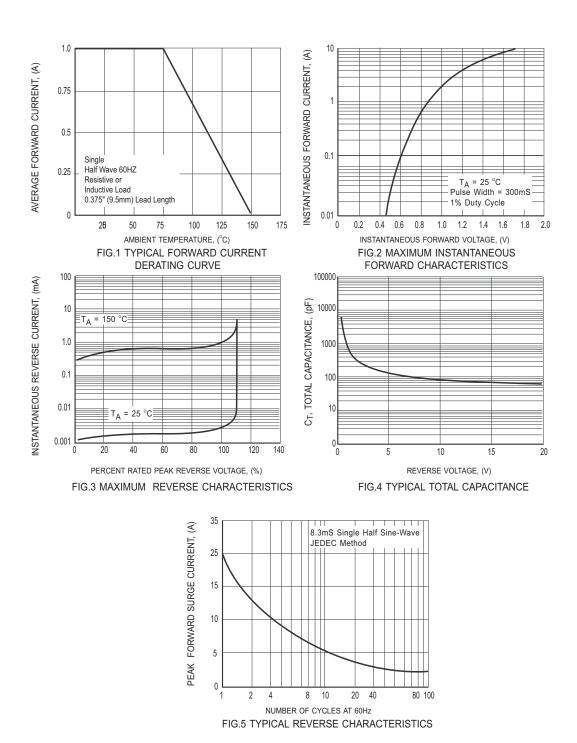
CHARACTERISTICS	SYMBOL	SS150V	SS200V	UNITS	
Maximum Instantaneous Forward Voltage at 1.0A D	Maximum Instantaneous Forward Voltage at 1.0A DC		0.85		Volts
Maximum Average Reverse Current	@TA = 25°C	1-	2.0		uAmps
at Rated DC Blocking Voltage	@Ta = 150°C	'R	1.0		mAmps

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

- 2. "RoH S compliant"
- 3. Mounted on PCB.

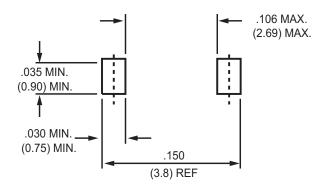
2022-10 REV: A

## RATING AND CHARACTERISTICS CURVES (SS150V, SS200V)





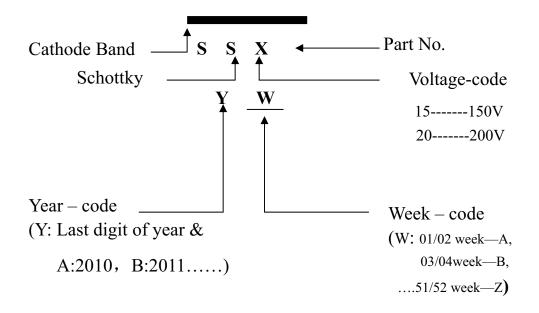
## **Mounting Pad Layout**



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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