

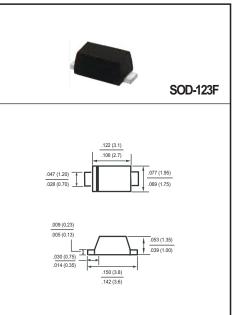


SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 to 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
- * ESD: HBM class 3B ,MM class M4
- * P/N suffix V means AEC-Q101 qualified, e.g:SS20V
- * P/N suffix V means Halogen-free
- MECHANICAL DATA
- * Epoxy: Device has UL flammability classification 94V-O
- * Mounting position: Any
- * Weight:0.018gram (Approx.)
- * Flat lead frame



Dimensions in inches and (millimeters)

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

AXIMUM RATINGS (@ TA=25 °C unless otherwise noted)	OVMDOL	0000	0000	0040	0050	0000	0.000	00400	UNITS
RATINGS	SYMBOL	SS20	SS30	SS40	SS50	SS60	SS80	SS100	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	100	Volts
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	70	Volts
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	100	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)	I _{FSM}		40						Amp
Typical Current Square Time	I ² T	6.6							A ² S
Typical Thermal Resistance (Note 3)	R _{θJA}	110							
Typical memail resistance (note 5)	R _{θJL}	R _{θJL} 30					°C/W		
Operating Temperature Range	TJ	-55 to + 150							٥C
Storage Temperature Range	T _{STG}	-55 to + 150						٥C	
Total Capacitance (Note 1)	CT 75						pF		

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

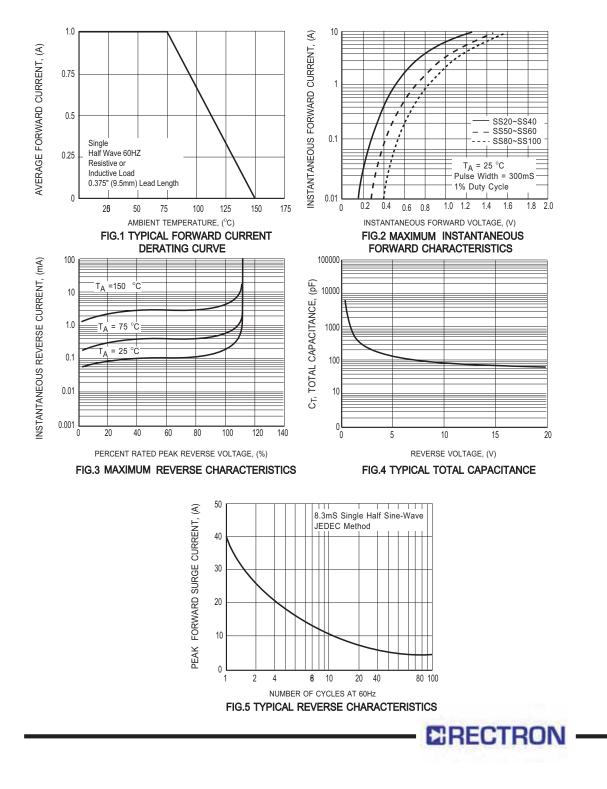
CHARACTERISTICS	SYMBOL	SS20	SS30	SS40	SS50	SS60	SS80	SS100	UNITS	
Maximum Instantaneous Forward Voltage at 1.0A	DC	VF		0.55		0.	70	0	Volts	
Maximum Average Reverse Current	@TA = 25°C		0.2							mAmps
at Rated DC Blocking Voltage	@TA =150 °C		5						mAmps	
NOTED										2022 40

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

2."ROHS compliant"

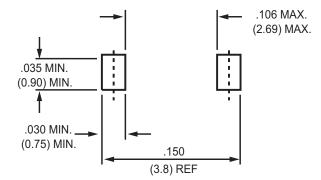
3. Thermal Resistance: Mounted on PCB.

2022-10 REV: A



RATING AND CHARACTERISTICS CURVES (SS20 THRU SS100)

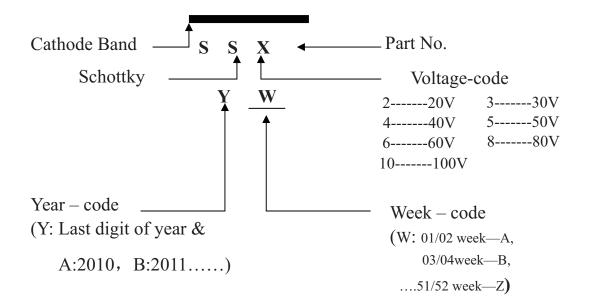
Mounting Pad Layout



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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