



SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 to 40 Volts CURRENT 0.2 Ampere

FEATURES

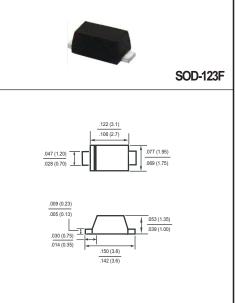
- * Low power loss, high efficiency
- * Low leakage
- * Low forward voltage
- * High current capability
- * High speed switching
- * High surge capabitity
- * High reliability

MECHANICAL DATA

* Epoxy: Device has UL flammability classification 94V-O * Mounting position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.



Single phase, half wave, 60 Hz, resistive or inductive load.

Dimensions in inches and (millimeters)

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

For capacitive load, derate current by 20%.

RATINGS	SYMBOL	02SSL20	02SSL30	02SSL40	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	20 30		40	Volts
Maximum RMS Voltage	V _{RMS}	14	21	28	Volts
Maximum DC Blocking Voltage	V _{DC}	20 40		40	Volts
Maximum Average Forward Rectified Current .375" (9.5mm) lead length at T _A =110°C	Io	0.2			Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	60			Amps
Typical Current Squared Time	l ² t	14.9			A ² S
Typical Junction Capacitance (Note1)	CJ	110			pF
Turical Thomas Devictorian (Nata 2)	R _{0JA}	110			° C/W
Typical Thermal Resistance (Note 3)	R _{0JL}	30			
Operating Temperature Range	TJ	-55 to + 150			۰C
Storage Temperature Range	T _{STG}	-55 to + 150			°C

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

CHARACTERISTICS	SYMBOL	02SSL20	02SSL30	02SSL40	UNITS
Maximum Instantaneous Forward Voltage at 0.2A	VF	.28			Volts
Maximum Average Reverse Current	@T _A = 25°C	la la		mAmps	
at Rated DC Blocking Voltage	@T _A = 150°C	١R		mAmps	

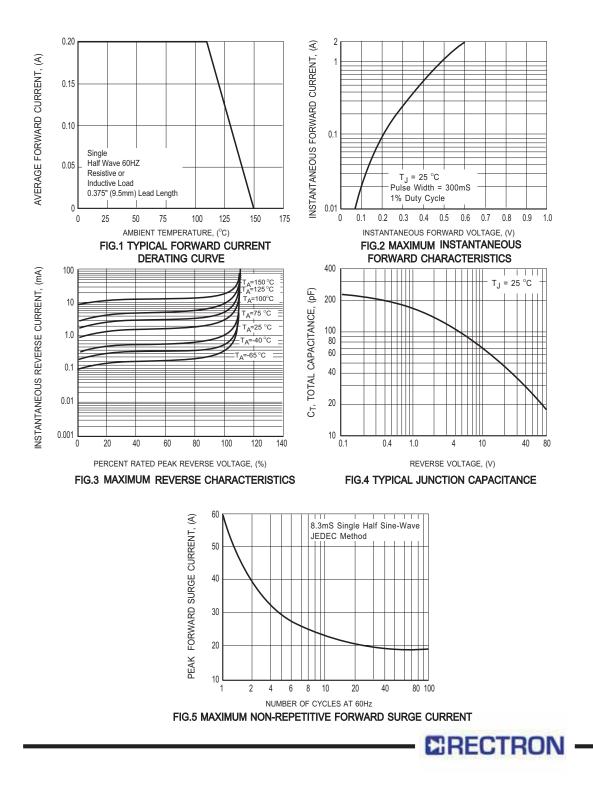
NOTES: 1. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

2. " ROHS compliant"

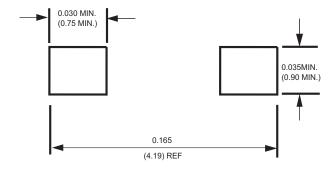
3. Thermal resistance: Mounted on PCB.

2022-10 REV: D





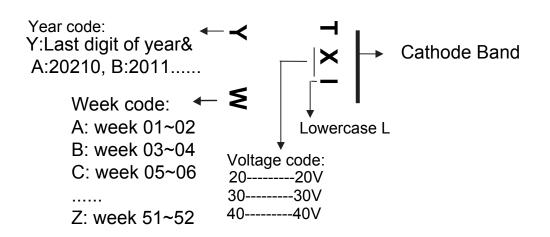
Mounting Pad Layout



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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