

2SSL20L THRU 2SSL40L

LOW Vf SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 to 40 Volts CURRENT 2.0 Ampere

FEATURES

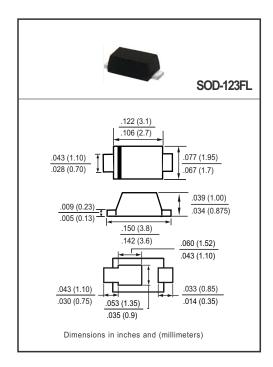
- * Low power loss, high efficiency
- * Low leakage
- * Low forward voltage
- * High current capability
- * High speed switching
- * High surge capabitity
- * High reliability

MECHANICAL DATA

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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}\text{C}$ ambient temperature unless otherwise specified. Resistive or inductive load.



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

RATINGS	SYMBOL	2SSL20L	2SSL30L	2SSL40L	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	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 =75°C	Io	2.0			Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	60			Amps
TypicalCurrent Square Time	I ² T	14.94			A ² S
Typical Junction Capacitance (Note1)	CJ	110			pF
Typical Thermal Resistance (Note 3)	R _{θJA}	110			° C/W
Typical Thermal Resistance (Note 3)	R _{θJL}	30			
Operating Temperature Range	TJ	-55 to + 150			°C
Storage Temperature Range	T _{STG}	-55 to + 150			°C

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

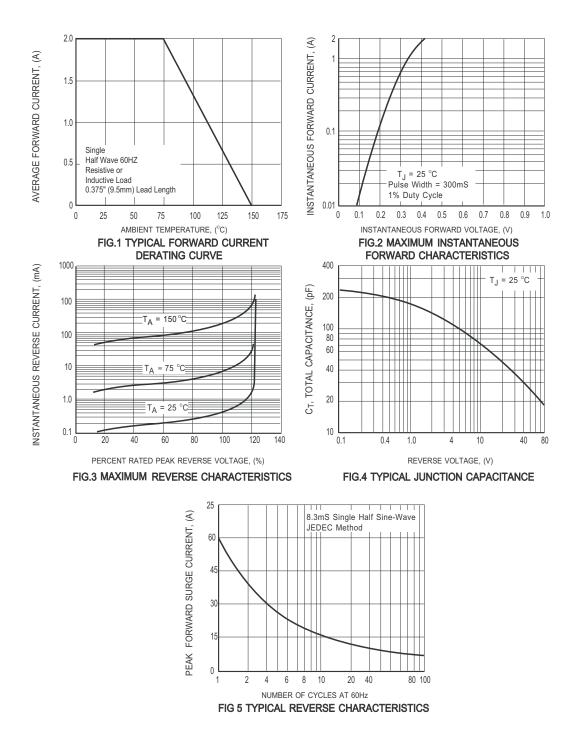
	CHARACTERISTICS	SYMBOL	2SSL20L	2SSL30L	2SSL40L	UNITS		
	Maximum Instantaneous Forward Voltage at 2.0A	V _F	0.42			Volts	l	
	Maximum Average Reverse Current	@T _A = 25°C			mAmps	l		
	at Rated DC Blocking Voltage	@T _A = 125°C	IK.		mAmps	1		

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

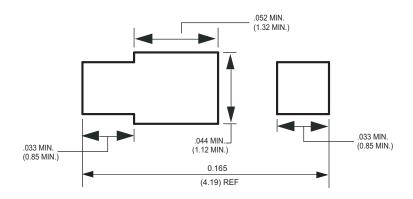
- 2. "RoHS compliant".
- 3. Thermal resistance: Mounted on PCB.

2023-05 REV: E

RATING AND CHARACTERISTICS CURVES (2SSL20L THRU 2SSL40L)



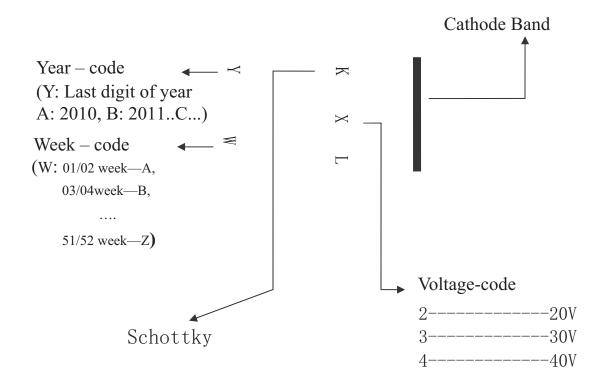
Mounting Pad Layout



Dimensions in inches and (millimeters)



<u>Marking Description</u>





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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