

2SSL20L THRU 2SSL40L

### LOW Vf SCHOTTKY BARRIER RECTIFIER

### VOLTAGE RANGE 20 to 40 Volts CURRENT 2.0 Ampere

#### **FEATURES**

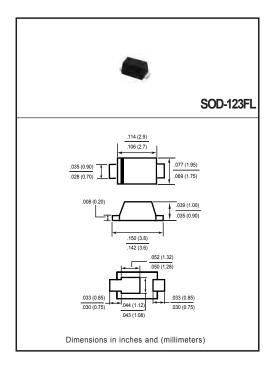
- \* Low power loss, high efficiency
- \* Low leakage
- \* Low forward voltage
- \* High current capability
- \* High speed switching
- \* High surge capabitity
- \* High reliability

#### **MECHANICAL DATA**

- \* Epoxy: Device has UL flammability classification 94V-O
- \* Mounting position: Any
- \* Weight: 0.016 gram

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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



### $\textbf{MAXIMUM RATINGS} \ (\textcircled{@} \ \mathsf{TA=25} \ ^{\circ}\mathsf{C} \ \ \mathsf{unless} \ \ \mathsf{otherwise} \ \ \mathsf{noted})$

RATINGS	SYMBOL	2SSL20L	2SSL30L	2SSL40L	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	40	40	Volts
Maximum Average Forward Rectified Current .375" (9.5mm) lead length at T <sub>A</sub> =75°C	Io	2.0			Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	25			Amps
TypicalCurrent Square Time	I <sup>2</sup> T	2.5			A <sup>2</sup> S
Typical Junction Capacitance (Note1)	CJ	110			pF
Typical Thermal Resistance (Note 3)	R <sub>θJA</sub>	110			°C/W
Typical Thermal Resistance (Note 3)	R <sub>0</sub> JL	30			
Operating Temperature Range	TJ	150			٥C
Storage Temperature Range	T <sub>STG</sub>	-55 to + 150			٥C

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

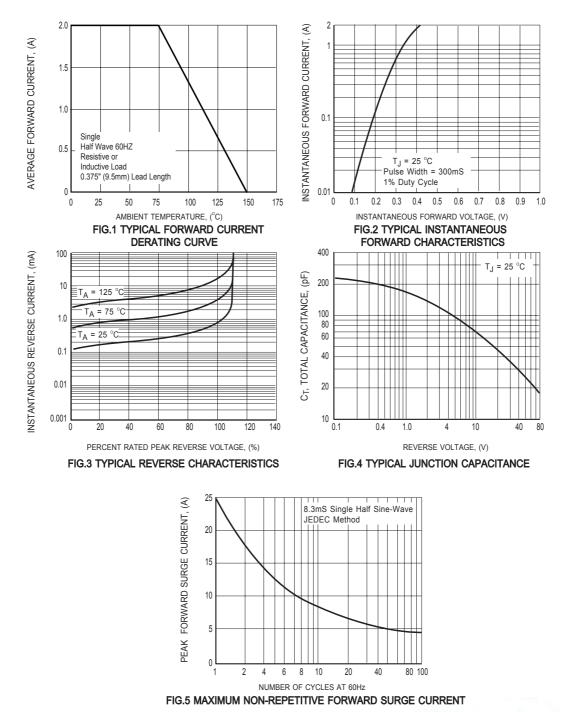
CHARACTERISTICS		SYMBOL	2SSL20L	2SSL30L	2SSL40L	UNITS
Maximum Instantaneous Forward Voltage at 2.0A	DC	V <sub>F</sub>	.42		Volts	
Maximum Average Reverse Current	@T <sub>A</sub> = 25°C	l <sub>a</sub>	1.0			mAmps
at Rated DC Blocking Voltage	@T <sub>A</sub> = 100°C	I <sub>R</sub>	10			mAmps

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

- 2. "Fully ROHS compliant", "100% Sn plating (Pb-free)".
- 3. Thermal resistance: Mounted on PCB.

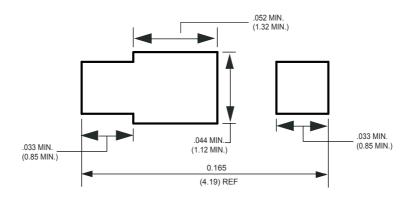
2009-09 REV: A

### RATING AND CHARACTERISTICS CURVES (2SSL20L THRU 2SSL40L)





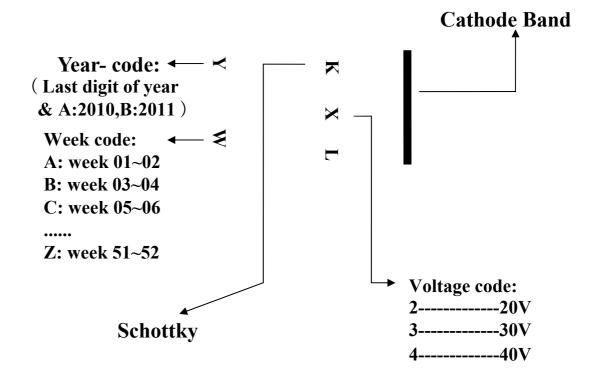
## **Mounting Pad Layout**



Dimensions in inches and (millimeters)



# **Marking Description**



# PACKAGING OF DIODE AND BRIDGE RECTIFIERS

### REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	COMPONENT SPACE(mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)		GROSS WEIGHT(Kg)
SOD-123F	-W	2,500			178	390*205*310	100,000	5.804

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