

2SS20L **THRU** 2SS60L

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

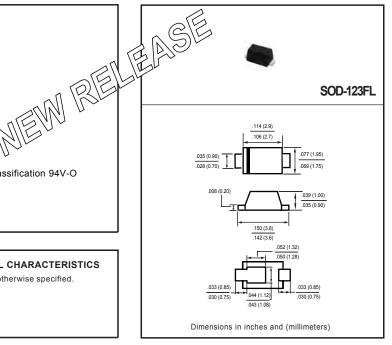
VOLTAGE RANGE 20 to 60 Volts CURRENT 2.0 Amperes

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

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. resistive or inductive load.

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

RATINGS	SYMBOL	2SS20L	2SS30L	2SS40L	2SS50L	2SS60L	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	Volts
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	Volts
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	Volts
Maximum Average Forward Rectified Current $$ @ T _A =75 $^{\circ}$ C	Io	2.0					Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	50					Amps
Current Squared Time	I ² t	10.3				A ² /Sec	
Typical Thermal Resistance (Note 3)	R _{θJA}	110					°C/W
Typical Thermal Nesistance (Note 3)	R⊕JL		10/W				
Operating Temperature Range	TJ	150					۰C
Storage Temperature Range	T _{STG}	-55 to + 150				٥C	
Total Capacitance (Note 1)	C _T	75				pF	

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

CHARACTERISTICS	SYMBOL	2SS20L	2SS30L	2SS40L	2SS50L	2SS60L	UNITS	
Maximum Instantaneous Forward Voltage at 2.0A I	VF	0.55			0.70		Volts	
Maximum Average Reverse Current	@TA = 25°C	1-	0.2					mAmps
at Rated DC Blocking Voltage	@Ta = 100°C	l _R	2			mAmps		

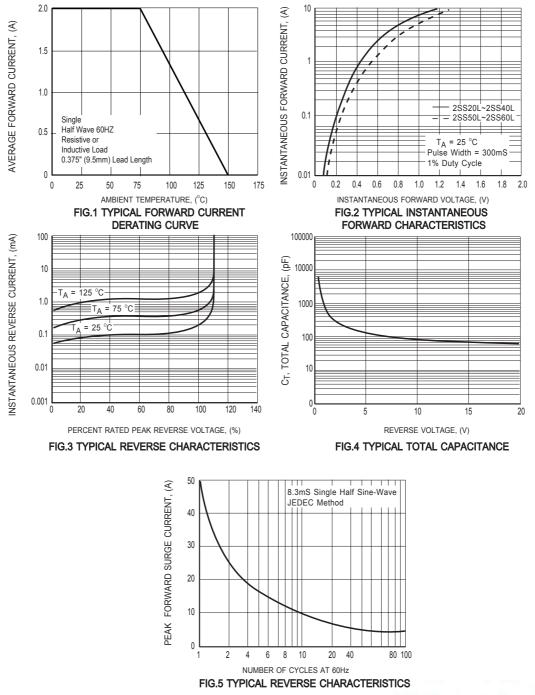
NOTES: 1. Measured at 1 MHz and applied reverse voltage of 4 Volts.

2. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

- 3. Thermal Resistance: Mounted on PCB.

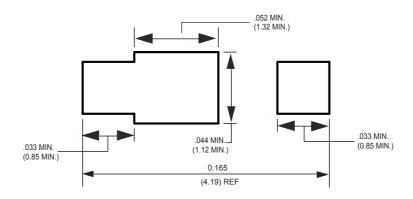
2009-09 REV: A

RATING AND CHARACTERISTICS CURVES (2SS20L THRU 2SS60L)





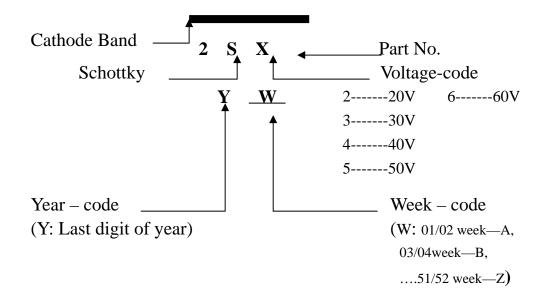
Mounting Pad Layout



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-123FL	-W	2,500			178	390*205*310	100,000	5.804

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