2SS20 THRU 2SS60

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

SOD-123F ssification 94V-0 CHARACTERISTICS nerwise specified. nductive load. Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

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

RATINGS	SYMBOL	2SS20	2SS30	2SS40	2SS50	2SS60	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}	25					Amps
Typical Thermal Resistance (Note 3)	R _θ JA		°C/W				
Typical Thermal Nesistance (Note 3)	R _{θJL}						
Operating Temperature Range	TJ	150					٥C
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)

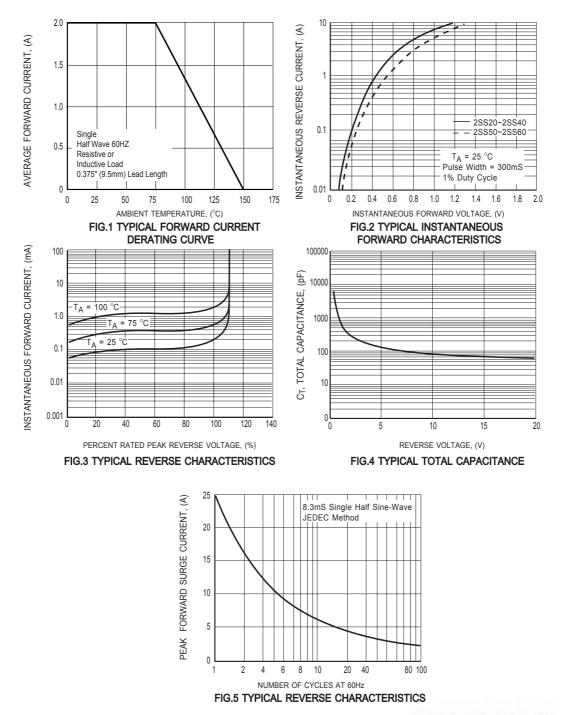
ELECTRICAL CHARACTERISTICS (WTA-25 C unless officials)									
	CHARACTERISTICS	SYMBOL	2SS20	2SS30	2SS40	2SS50	2SS60	UNITS	
	Maximum Instantaneous Forward Voltage at 2.0A I	VF	0.55			0.70		Volts	
	Maximum Average Reverse Current	@TA = 25°C		0.2					mAmps
	at Rated DC Blocking Voltage	@Ta = 100°C	I _R		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.

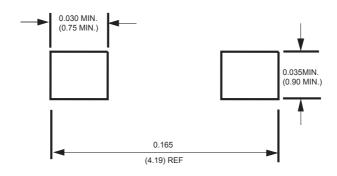
2007-08

RATING AND CHARACTERISTICS CURVES (2SS20 THRU 2SS60)





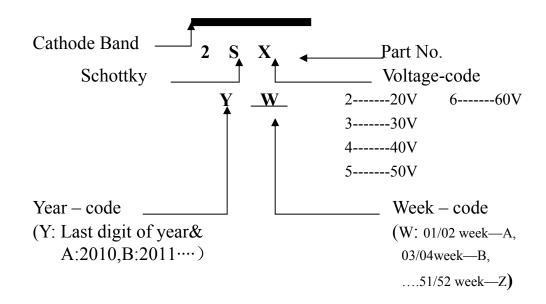
Mounting Pad Layout



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

DISCLAIMER NOTICE

Rectron Inc reserves the right to make changes without notice to any product specification herein, to make corrections, modifications, enhancements or other changes. Rectron Inc or anyone on its behalf assumes no responsibility or liability for any errors or inaccuracies. Data sheet specifications and its information contained are intended to provide a product description only. "Typical" parameters which may be included on RECTRON data sheets and/ or specifications can and do vary in different applications and actual performance may vary over time. Rectron Inc does not assume any liability arising out of the application or use of any product or circuit.

Rectron products are not designed, intended or authorized for use in medical, life-saving implant or other applications intended for life-sustaining or other related applications where a failure or malfunction of component or circuitry may directly or indirectly cause injury or threaten a life without expressed written approval of Rectron Inc. Customers using or selling Rectron components for use in such applications do so at their own risk and shall agree to fully indemnify Rectron Inc and its subsidiaries harmless against all claims, damages and expenditures.

