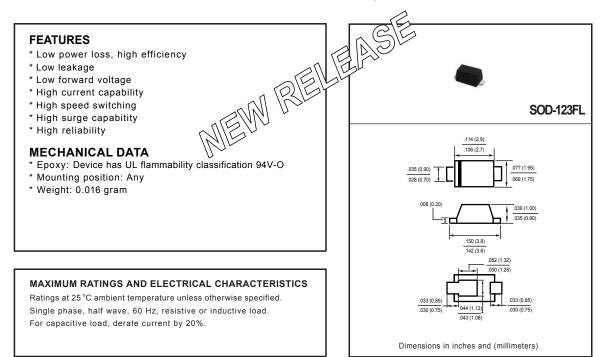




SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 to 60 Volts CURRENT 0.5 Ampere



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

RATINGS	SYMBOL	05S2L	05S3L	05S4L	05S5L	05S6L	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 .375" (9.5mm) lead length at T _A =55 °C	IO	0.5					
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	15					
Typical Junction Capacitance (Note 1)	CJ	110					
Typical Thermal Resistance (Note 3)	R _{0JA}	110					° C/W
	R _{0JL}	30					° C/W
Operating Temperature Range	TJ	150					٥C
Storage Temperature Range	T _{STG}	-55 to + 150					٥C

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

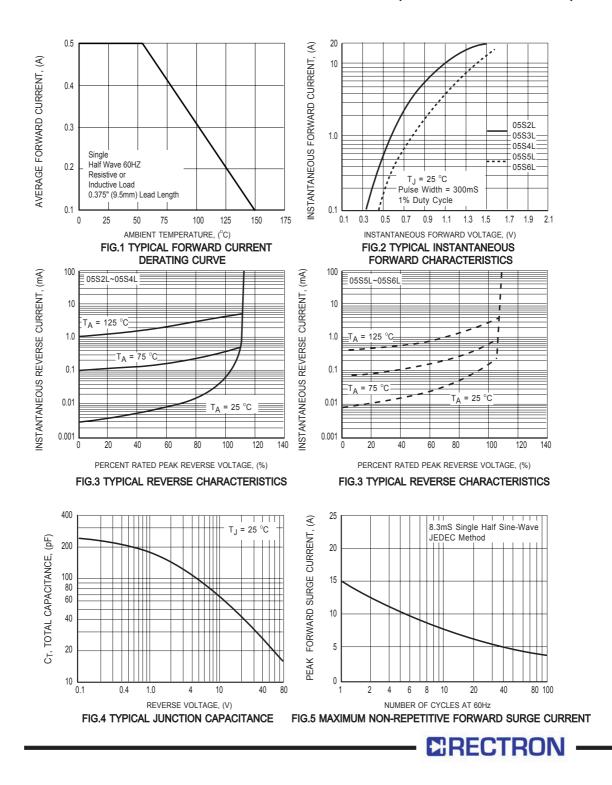
CHARACTERISTICS		SYMBOL	05S2L	05S3L	05S4L	05S5L	05S6L	UNITS	
Maximum Instantaneous Forward Voltage at 0.5A DC		VF	.55			.7	70	Volts	
Maximum Average Reverse Current	@T _A = 25°C		0.2					mAmps	
at Rated DC Blocking Voltage	@T _A = 100°C	IR IR	2					mAmps	

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

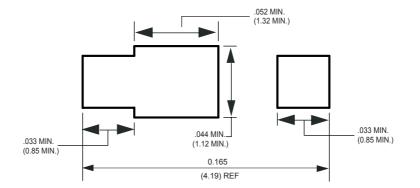
2. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

3. Thermal Resistance: Mounted on PCB.

2006-11



Mounting Pad Layout



Dimensions in inches and (millimeters)



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.

