

Dimensions in inches and (millimeters)

For capacitive load, derate current by 20%.

MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted) SYMBOL SH2L UNITS RATINGS SH1L SH3L SH4L SH5L SH6L Maximum Recurrent Peak Reverse Voltage V_{RRM} 50 100 200 300 400 600 Volts Maximum RMS Voltage 280 V_{RMS} 35 70 140 210 420 Volts Maximum DC Blocking Voltage 50 100 200 300 400 600 Volts $\mathsf{V}_{\mathsf{D}\mathsf{C}}$ Maximum Average Forward Rectified Current l_o 1.0 Amps at T_A = 55°C Peak Forward Surge Current 8.3 ms single half sine-wave 20 Amps IFSM superimposed on rated load (JEDEC method) Typical Thermal Resistance (Note 1) $R_{\theta JA}$ 130 °C/W Typical Thermal Resistance (Note 1) $R\,\theta\,{}_{J\,L}$ 30 °C/W pF Typical Junction Capacitance (Note 2) 15 12 C. Operating Temperature Range ТJ 150 ⁰ C ٥C Storage Temperature Range T_{STG} -55 to + 150

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

			,						_
CHARACTERISTICS		SYMBOL	SH1L	SH2L	SH3L	SH4L	SH5L	SH6L	UNITS
Maximum Instantaneous Forward Voltage at 1.0A DC		VF	1.0			1.3		1.7	Volts
Maximum Average Reverse Current	@T _A = 25°C	1-	5						μA
at Rated DC Blocking Voltage	@T _A = 100°C	I _R	100						μA
Maximum Reverse Recovery Time (Note 4)		trr	50 75					75	nSec
NOTES 1 Thermal Resistance Mounted on PCR									2006-12

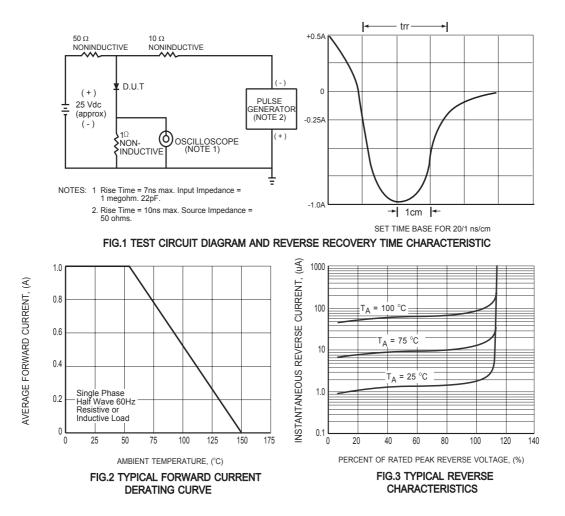
NOTES: 1. Thermal Resistance :Mounted on PCB.

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

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

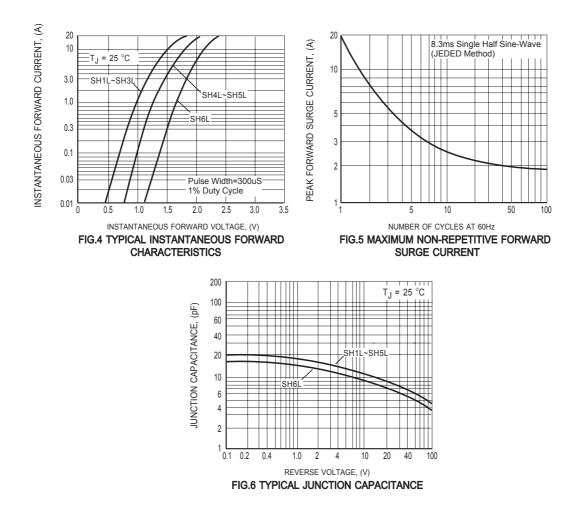
4. Test Conditions: I_F = 0.5A, I_R = -1.0A, I_R R= -0.25A.

RATING AND CHARACTERISTICS CURVES (SH1L THRU SH6L)



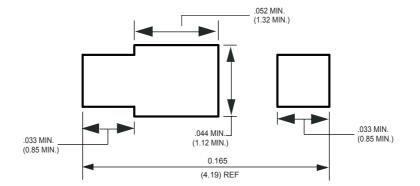


RATING AND CHARACTERISTICS CURVES (SH1L THRU SH6L)





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.

