

Type Number	Symbol	RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1M	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current See Fig. 1 @T <sub>L</sub> =90 <sup>0</sup> C	I <sub>(AV)</sub>	1.0							А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method )	I <sub>FSM</sub>	30							А
Maximum Instantaneous Forward Voltage @ 1.0A	V <sub>F</sub>	1.3							V
Maximum DC Reverse Current @ T <sub>A</sub> =25 $^{\circ}$ C at Rated DC Blocking Voltage @ T <sub>A</sub> =125 $^{\circ}$ C	I <sub>R</sub>	5 50							uA uA
Maximum Reverse Recovery Time (Note 1)	Trr	150 250 500					nS		
Typical Junction Capacitance (Note 2)	Cj	10							рF
Typical Thermal Resistance (Note 3)	$R heta_{JA}$	105.0							<b>C</b> /W
	R \theta_JL	32.0							°C/W
Operating Temperature Range	TJ	-55 to +150							Ľ
Storage Temperature Range	Tstg	-55 to +150							C

Notes: 1. Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A

2. Measured at 1 MHz and Applied VR=4.0 Volts

3. Thermal Resistance from Junction to Ambient and from Junction to Lead Mounted on P.C.B. with 0.2"x0.2" ( 5.0 x 5.0 mm ) Copper Pad Areas.



