





**Solid State Devices, Inc.**

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**SDR1ASM & SMS  
 thru  
 SDR1MSM & SMS**

<b>ELECTRICAL CHARACTERISTICS <sup>3/</sup></b>		<b>Maximum Limit</b>					
		<b>Package</b>			<b>UNIT</b>		
<b>CHARACTERISTICS</b>	<b>SYMBOL</b>	<b>SM</b>	<b>SMS</b>				
Instantaneous Forward Voltage Drop ( $I_F = 1A_{dc}$ , 300 $\mu s$ Pulse, $T_A = 25^\circ C$ )	SDR1A .. thru SDR1D ..	1.3	0.96	Vdc			
	SDR1G .. thru SDR1J ..	1.3	1.3				
	SDR1K .. thru SDR1M ..	2.5	1.9				
Instantaneous Forward Voltage Drop ( $I_F = 1A_{dc}$ , 300 $\mu s$ Pulse, $T_A = -55^\circ C$ )	SDR1A .. thru SDR1D ..	1.45	2.1	Vdc			
	SDR1G .. thru SDR1J ..	1.45	2.1				
	SDR1K .. thru SDR1M ..	2.65	2.3				
Reverse Leakage Current (Rated $V_R$ , 300 $\mu s$ Pulse Minimum , $T_A = 25^\circ C$ )	SDR1A .. thru SDR1D ..	5		$\mu A$			
	SDR1G .. thru SDR1J ..						
	SDR1K .. thru SDR1M ..						
Reverse Leakage Current (Rated $V_R$ , 300 $\mu s$ Pulse Minimum , $T_A = 100^\circ C$ )	SDR1A .. thru SDR1D ..	250		$\mu A$			
	SDR1G .. thru SDR1J ..						
	SDR1K .. thru SDR1M ..						
Junction Capacitance ( $V_R = 10V_{dc}$ , $T_A = 25^\circ C$ , $f = 1MHz$ )	SDR1A .. thru SDR1D ..	15	40	pf			
	SDR1G .. thru SDR1J ..	15	25				
	SDR1K .. thru SDR1M ..	10	15				
Reverse Recovery Time <sup>4/</sup>	SDR1A .. thru SDR1D ..	50	50	ns			
	SDR1G .. thru SDR1J ..	60	60				
	SDR1K .. thru SDR1M ..	70	70				
<b>Round Tab Surface Mount (SM):</b>	<b>DIMENSIONS</b>			<b>Square Tab Surface Mount (SMS) :</b>	<b>DIMENSIONS</b>		
	DIM.	MIN.	MAX.		DIM.	MIN.	MAX.
	A	.095"	.105"		A	.134"	.153"
	B	.190"	.210"		B	.200"	.280"
	C	.010"	.030"		C	.022"	.028"
	D	---	---		D	.002"	---