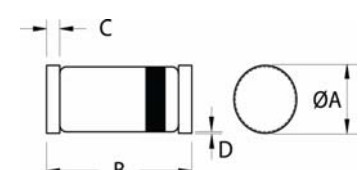
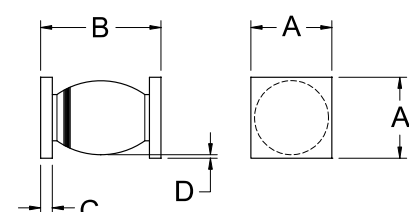
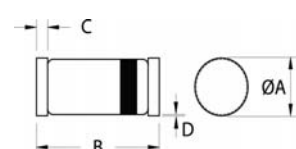




Solid State Devices, Inc.

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**SDR1ASM, SMM, & SMS
 thru
 SDR1MSM, SMM, & SMS**

ELECTRICAL CHARACTERISTICS ^{3/}				Maximum Limit					
CHARACTERISTICS		SYMBOL	Package			UNIT			
			SMM	SM	SMS				
Instantaneous Forward Voltage Drop ($I_F = 1\text{A}_{dc}$, 300 μs Pulse, $T_A = 25^\circ\text{C}$)	SDR1A .. thru SDR1D ..	V_{F1}	0.96	1.3	0.96	Vdc			
	SDR1G .. thru SDR1J ..		2.7	1.3	1.3				
	SDR1K .. thru SDR1M ..		2.7	2.5	1.9				
Instantaneous Forward Voltage Drop ($I_F = 1\text{A}_{dc}$, 300 μs Pulse, $T_A = -55^\circ\text{C}$)	SDR1A .. thru SDR1D ..	V_{F2}	1.05	1.45	2.1	Vdc			
	SDR1G .. thru SDR1J ..		2.85	1.45	2.1				
	SDR1K .. thru SDR1M ..		2.85	2.65	2.3				
Reverse Leakage Current (Rated V_R , 300 μs Pulse Minimum , $T_A = 25^\circ\text{C}$)	SDR1A .. thru SDR1D ..	I_{R1}	5			μA			
	SDR1G .. thru SDR1J ..								
	SDR1K .. thru SDR1M ..								
Reverse Leakage Current (Rated V_R , 300 μs Pulse Minimum , $T_A = 100^\circ\text{C}$)	SDR1A .. thru SDR1D ..	I_{R2}	250			μA			
	SDR1G .. thru SDR1J ..								
	SDR1K .. thru SDR1M ..								
Junction Capacitance ($V_R = 10\text{V}_{dc}$, $T_A = 25^\circ\text{C}$, $f = 1\text{MHz}$)	SDR1A .. thru SDR1D ..	C_J	20	15	40	pf			
	SDR1G .. thru SDR1J ..		10	15	25				
	SDR1K .. thru SDR1M ..		10	10	15				
Reverse Recovery Time ^{4/}	SDR1A .. thru SDR1D ..	t_{rr}	50		50	ns			
	SDR1G .. thru SDR1J ..			60	60				
	SDR1K .. thru SDR1M ..		70	70	70				
Round Tab Surface Mount (SM): 	DIMENSIONS			Square Tab Surface Mount (SMS) : 			DIMENSIONS		
	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"	---			
Mini (SMM): 	DIMENSIONS								
	DIM.	MIN.	MAX.						
	A	.075"	.085"						
	B	.135"	.145"						
	C	.010"	.030"						
	D	---	---						

NOTES:

- 1/ For Ordering Information, Price, Operating Curves, and Availability- Contact Factory.
- 2/ Screened to MIL-PRF-19500.
- 3/ Unless Otherwise Specified, All Electrical Characteristics @25°C.
- 4/ Recovery Conditions: $I_F = 0.5\text{ Amp}$, $I_R = 1.0\text{ Amp}$, I_{RR} to .25 Amp.