

MAXIMUM RATINGS 3/ RATING **SYMBOL** VALUE UNIT Peak Repetitive Reverse V_{RRM} SDR9JF & SDR9JFSMS 600 Voltage SDR9KF & SDR9KFSMS 800 V_{RWM} Volts And SDR9MF & SDR9MFSMS 1000 VR DC Blocking Voltage 9.0 Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, TA = 25°C) I₀ Amps Peak Surge Current 100 (8.3 ms pulse, half sine wave, superimposed on Io, allow **I**_{FSM} Amps junction to reach equilibrium between pulses, $T_A = 25^{\circ}C$) T_J and °C **Operating & Storage Temperature** -65 to +175 T_{STG} Junction to Lead for Axial, L = .125'' $R_{\theta JL}$ 8 °C/W Thermal Resistance Junction to End Tab for Surface Mount 4 $R_{\theta,JE}$

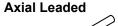
NOTES:

1/ For Ordering Information, Price, Operating Curves, and Availability- Contact Factory.

2/ Screening Based on MIL-PRF-19500. Screening Flows Available on Request.

 $\underline{3}$ / Unless Otherwise Specified, All Electrical Characteristics @25°C.

 $\underline{4}$ / I_F = 500mA, I_R = 1A, I_{RR} = 250mA, T_A = 25°C



SMS







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SDR9JF thru SDR9MF and SDRJFSMS thru SDRMFSMS Series

ELECTRICAL CHARACTERISTICS ^{3/}							
CHARACTERISTICS		SYMBOL	VALUE	UNIT			
			MAX				
Instantaneous Forward Voltage Drop $I_F = 9.0 \text{ Adc}, 300-500 \mu \text{s pulse}$	$T_A = +25^{\circ}C$ $T_A = -55^{\circ}C$		1.15 1.30	Vdc			
Reverse Leakage Current Rated V_R , 300 μ s pulse minimum	$T_A = +25^{\circ}C$ $T_A = +100^{\circ}C$		1.0 50	μΑ			
Junction Capacitance V _R = 10 Vdc, f = 1MHz, T _A = 25°C		CJ	50	pF			
Reverse Recovery Time $I_F = 500 \text{mA}, I_R = 1 \text{A}, I_{RR} = 250 \text{mA}, T_A = 25^{\circ}\text{C}$		t _{rr}	250 typ. 325 max.	ns			

Package Outlines:

DIMENSIONS (inches)			DIMENSIONS (inches)			
DIM.	Minimum	Maximum	DIM.	Minimum	Maximum	
А		.170	A (SMS)	.170	.180	
В	.210	.250	A (ASMS)	.145	.155	
С	.037	.043	В	.260	.300	
D	1.000		С	.020	.030	
			D	.002		
AXIAL $ \begin{array}{c} $		SMS $\downarrow - C$ $\downarrow - C$ $\downarrow - C$ $\downarrow - A \rightarrow \downarrow - A \rightarrow - A \rightarrow$				