



Solid State Devices, Inc.

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**SDR3DHF & SDR3DHFSMS
 thru
 SDR3NHF & SDR3NHFSMS**

Electrical Characteristic		Symbol	Max	Units
Instantaneous Forward Voltage Drop ($T_A = 25^\circ\text{C}$, pulsed)	$I_F = 1\text{A}$	V_{F1}	1.9	V_{DC}
	$I_F = 3\text{A}$	V_{F2}	3.1	
Instantaneous Forward Voltage Drop ($T_A = -55^\circ\text{C}$, pulsed)	$I_F = 1\text{A}$	V_{F3}	2.0	V_{DC}
	$I_F = 3\text{A}$	V_{F4}	3.2	
Reverse Leakage Current (Rated V_R , $T_A = 25^\circ\text{C}$, pulsed)		I_{R1}	10	μA
Reverse Leakage Current (Rated V_R , $T_A = 100^\circ\text{C}$, pulsed)		I_{R2}	300	μA
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}	35	nsec
Junction Capacitance ($V_R = 10V_{DC}$, $f = 1\text{MHz}$, $T_A = 25^\circ\text{C}$)		C_J	30	pF

Case Outline: (Axial)

DIM	MIN	MAX
A	—	0.165"
B	—	0.220"
C	0.047"	0.053"
D	0.950"	—

Case Outline: (SMS)

DIM	MIN	MAX
A	0.172"	0.180"
B	0.180"	0.280"
C	0.022"	0.028"
D	0.002"	--