



Solid State Devices, Inc.

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**SPD5550
 Thru
 SPD5554 Series**

ELECTRICAL CHARACTERISTICS	Symbol	Min	Max	Unit
Instantaneous Forward Voltage Drop ($I_F = 9$ Amps, $T_A = 25^\circ\text{C}$, 300 μsec Pulse)	$T_A = 25^\circ\text{C}$ V_{F1}	—	1.20	Volts
	$T_A = -55^\circ\text{C}$ V_{F2}	—	1.50	Volts
Reverse Leakage Current (At Rated V_R , 300 μsec pulse minimum)	$T_A = 25^\circ\text{C}$ I_{R1}	—	5.0	μA
	$T_A = 100^\circ\text{C}$ I_{R2}	—	20	μA
Breakdown Voltage ($I_R = 50 \mu\text{A}$, $T_A = 25^\circ\text{C}$)	SPD5550	200	—	Volts
	SPD5551	400	—	
	SPD5552	600	—	
	SPD5553	800	—	
	SPD5554	1000	—	
Junction Capacitance ($V_R = 10 V_{DC}$, $T_A = 25^\circ\text{C}$, $f = 1$ MHz)	C_J	—	50	μF
Reverse Recovery Time ($I_F = 500$ mA, $I_R = 1$ A, $I_{RR} = 250$ mA, $T_A = 25^\circ\text{C}$)	t_{rr}	—	2	μs

Case Outline: (Axial)

DIM	MIN	MAX
A	—	0.170"
B	0.210"	0.250"
C	0.037"	0.043"
D	1.00"	—

Case Outline: (SMS)

DIM	MIN	MAX
A	0.170"	0.180"
B	0.260"	0.300"
C	0.020"	0.030"
D	0.002"	—

Note: Dimensions prior to soldering.

NOTES:

- 1/ For Ordering Information, Price, Operating Curves, and Availability- Contact Factory.
- 2/ Screened to MIL-PRF-19500.

NOTE: All specifications are subject to change without notification. SCD's for these devices should be reviewed by SSDI prior to release.	DATA SHEET #: RC0112A	DOC
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