



Solid State Devices, Inc.

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**SPD5711, SPD5711A
 And
 SPD5712, SPD5712A**

Electrical Characteristics ^{3/}	Symbol	SPD5711		SPD5712		Units
		Min	Max	Min	Max	
Blocking Reverse Voltage ($I_R = 10 \mu A$, $T_A = 25^\circ C$, 300 – 500 μs Pulse)	V_{BR}	70	—	20	—	V_{DC}
Instantaneous Forward Voltage Drop ($T_A = 25^\circ C$, 300 – 500 μs Pulse)	$I_F = 1 \text{ mADC}$ V_{F1}	—	0.41	—	0.41	V_{DC}
	$I_F = 15 \text{ mADC}$ V_{F2}	—	1.0	—	—	
	$I_F = 35 \text{ mADC}$ V_{F3}	—	—	—	1.0	
Instantaneous Forward Voltage Drop ($T_A = -55^\circ C$, 300 – 500 μs Pulse)	$I_F = 1 \text{ mADC}$ V_{F4}	—	0.55	—	0.55	V_{DC}
	$I_F = 15 \text{ mADC}$ V_{F5}	—	1.0	—	—	
	$I_F = 35 \text{ mADC}$ V_{F6}	—	—	—	1.0	
Reverse Leakage Current ($T_A = 25^\circ C$, $V_R = \text{Rated}$, 300 μs Minimum Pulse)	IR_1	—	200	—	150	nA
Reverse Leakage Current ($T_A = 100^\circ C$, $V_R = \text{Rated}$, 300 μs Minimum Pulse)	IR_2	—	200	—	150	μA
Junction Capacitance ($V_R = 0 \text{ VDC}$, $V_{SIG} = 50 \text{ mV}_{PK}$, $T_A = 25^\circ C$, $f = 1 \text{ MHz}$)	SPD5711 and SPD5712 C_{J1}	—	2.0	—	2.0	pF
	SPD5711A and SPD5712A C_{J2}	—	1.2	—	1.2	

Notes:

- 1/ For ordering information, Price, Operating Curves, and Availability- Contact Factory.
- 2/ Screened to MIL-PRF-19500.
- 3/ Maximum Ratings and Electrical Characteristics @ 25°C Unless Otherwise Specified.

Case Outline:

DIMENSIONS		
DIM	MIN.	MAX.
A	0.068"	0.076"
B	0.150"	0.170"
C	1.00"	1.50"
D	0.014"	0.022"

Note: Lead Diameter is not controlled within 0.050" of the diode body.