



Solid State Devices, Inc.

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**SPD5615 thru SPD5623
 and
 SPD5615SMS thru SPD5623SMS**

ELECTRICAL CHARACTERISTICS ^{3/ 5/}

CHARACTERISTICS	SYMBOL	VALUE	UNIT
Maximum Instantaneous Forward Voltage Drop ($I_F = 3A_{dc}$, 300- 500 μs Pulse, $T_A = 25^\circ C$)	V_F	1.60	Vdc
Maximum Reverse Leakage Current (Rated V_R , 300 μs Pulse Minimum , $T_A = 25^\circ C$)	I_{R1}	.5	μA
Maximum Reverse Leakage Current (Rated V_R , 300 μs Pulse Minimum , $T_A = 100^\circ C$)	I_{R2}	25	μA
Junction Capacitance ($V_R = 12V_{dc}$, $T_A = 25^\circ C$, $f = 1MHz$)	C_J	SPD5615: 45 SPD5617: 35 SPD5619: 25 SPD5621: 20 SPD5623: 15	pf
Maximum Reverse Recovery Time ^{4/}	t_{rr}	SPD5615: 150 SPD5617: 150 SPD5619: 250 SPD5621: 300 SPD5623: 500	ns

Axial Leaded Case Outline:

DIMENSIONS		
DIM.	MIN.	MAX.
A	---	.150"
B	.140	.190"
C	.027"	.033"
D	.95"	---

Square Tab Surface Mount Case Outline:

DIMENSIONS		
DIM.	MIN.	MAX.
A	.128"	.132"
B	.190"	.240"
C	.022"	.028"
D	.001"	---

NOTES:

- 1/ For Ordering Information, Price, and Availability- Contact Factory.
- 2/ Screened to MIL-PRF-19500.
- 3/ Unless Otherwise Specified, All Electrical Characteristics @25°C.

- 4/ Recovery Conditions: $I_F = 0.5$ Amp, $I_R = 1.0$ Amp, I_{RR} to .25 Amp.
- 5/ For information on operating curves, contact factory.