





**Solid State Devices, Inc.**

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**SPD5807 thru SPD5811**  
**SPD5807SMS thru SPD5811SMS**  
**SPD5807ASMS thru SPD5811ASMS**

<b>ELECTRICAL CHARACTERISTICS <sup>3/</sup></b>				
<b>CHARACTERISTICS</b>		<b>SYMBOL</b>	<b>VALUE</b>	<b>UNIT</b>
			<b>MAX</b>	
Instantaneous Forward Voltage Drop	$I_F = 6.0 \text{ Adc}$ , $T_A = +25^\circ\text{C}$ , 300 $\mu\text{s}$ pulse $I_F = 6.0 \text{ Adc}$ , $T_A = -55^\circ\text{C}$ , 300 $\mu\text{s}$ pulse	$V_{F1}$ $V_{F2}$	0.975 1.08	Vdc
Reverse Leakage Current	Rated $V_R$ , $T_A = +25^\circ\text{C}$ , 300 $\mu\text{s}$ pulse minimum Rated $V_R$ , $T_A = +100^\circ\text{C}$ , 300 $\mu\text{s}$ pulse minimum	$I_{R1}$ $I_{R2}$	20 1	$\mu\text{A}$ mA
Junction Capacitance	$V_R = 10 \text{ Vdc}$ , $f = 1\text{MHz}$ , $T_A = 25^\circ\text{C}$	$C_J$	100	pF
Reverse Recovery Time	$I_F = 500\text{mA}$ , $I_R = 1\text{A}$ , $I_{RR} = 250\text{mA}$ , $T_A = 25^\circ\text{C}$	$t_{rr}$	40	ns

**Package Outlines:**

DIMENSIONS (inches)			DIMENSIONS (inches)		
DIM.	Minimum	Maximum	DIM.	Minimum	Maximum
A	.130	.170	A	.172	.180
B	---	.240	B	.200	.290 (SMS)
C	.038	.042	B	.200	.240 (ASMS)
D	1.000	---	C	.020	.035
<b>AXIAL</b> 			D	.002	---
			<b>SMS</b> 		

**NOTES:**

- 1/ For Ordering Information, Price, Operating Curves, and Availability- Contact Factory.
- 2/ Screened to MIL-PRF-19500.
- 3/ Unless Otherwise Specified, All Electrical Characteristics @25°C.
- 4/  $I_F = 500\text{mA}$ ,  $I_R = 1\text{A}$ ,  $I_{RR} = 250\text{mA}$ ,  $T_A = 25^\circ\text{C}$

<b>NOTE:</b> All specifications are subject to change without notification. SCD's for these devices should be reviewed by SSDI prior to release.	<b>DATA SHEET #: RC0108B</b>	<b>DOC</b>
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