



Solid State Devices, Inc.

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SPD5807 thru SPD5811
SPD5807SMS thru SPD5811SMS
SPD5807ASMS thru SPD5811ASMS

ELECTRICAL CHARACTERISTICS ^{3/}				
CHARACTERISTICS		SYMBOL	VALUE	UNIT
			MAX	
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	μA 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
AXIAL 			D	.002	---
			SMS 		

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/ $I_F = 500\text{mA}, I_R = 1\text{A}, I_{RR} = 250\text{mA}, T_A = 25^\circ\text{C}$

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