



Solid State Devices, Inc.

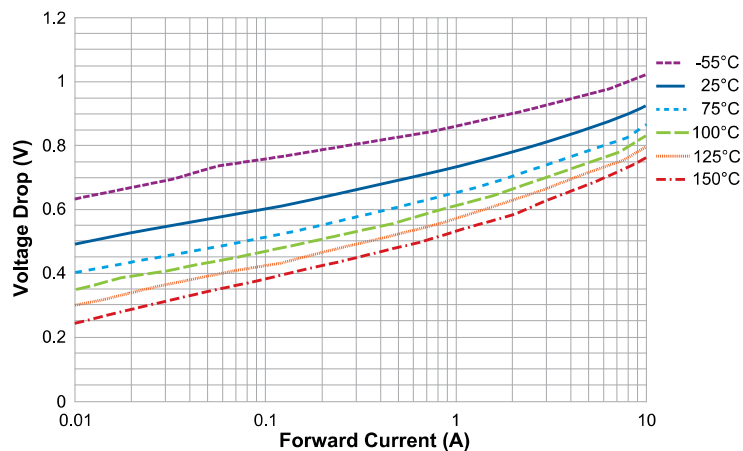
14701 Firestone Blvd * La Mirada, CA 90638
Phone: (562) 404-4474 * Fax: (562) 404-1773
ssdi@ssdi-power.com * www.ssdi-power.com

1N5807 – 1N5811 Series

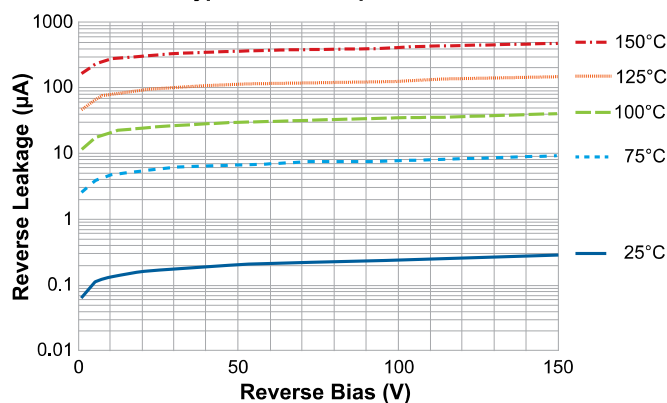
ELECTRICAL CHARACTERISTICS

Part Number	V_{BR}	I_{R1}	I_{R2}	V_{F1}	V_{F2}	V_{F3}
Conditions	@ 100 μ A pulse $\leq$ 20 ms	$V_R = V_{RWM}$ $T_A = +25^\circ\text{C}$ pulsed $V_R \leq$ 20 ms	$V_R = V_{RWM}$ $T_A = +125^\circ\text{C}$ pulsed $V_R \leq$ 20 ms	$I_{FM} = 3.0$ A Duty cycle $\leq$ 2% pulsed, $t_p = 8.3$ ms max	$I_{FM} = 4.0$ A Duty cycle $\leq$ 2% pulsed, $t_p = 8.3$ ms max	$I_{FM} = 6.0$ A Duty cycle $\leq$ 2% pulsed, $t_p = 8.3$ ms max
Units	V	μ A	μ A	V	V	V
1N5807	60	5.0	525	0.865	0.875	0.925
1N5809	110	5.0	525	0.865	0.875	0.925
1N5811	160	5.0	525	0.865	0.875	0.925

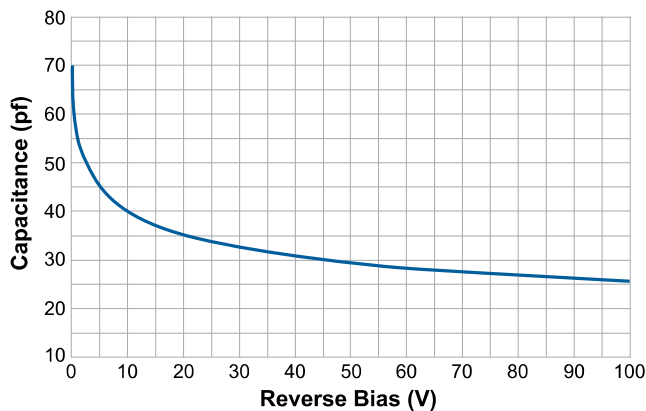
SSDI 1N5811
Typical V_F vs Temperature



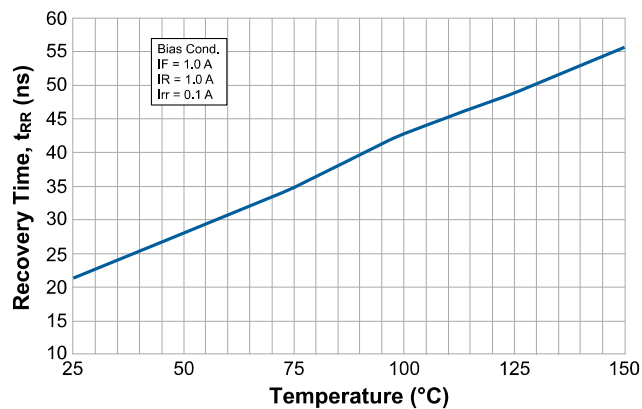
SSDI 1N5811
Typical I_R vs Temperature



SSDI 1N5811
Typical Capacitance vs Voltage



SSDI 1N5811
Typical Recovery Time vs Temperature



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

DATA SHEET #: RC0213A

DOC

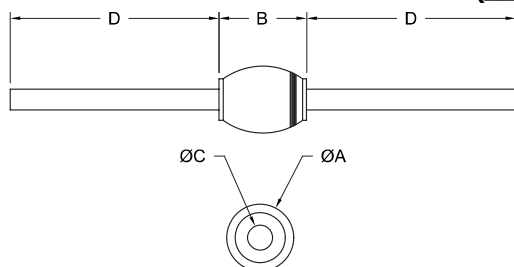


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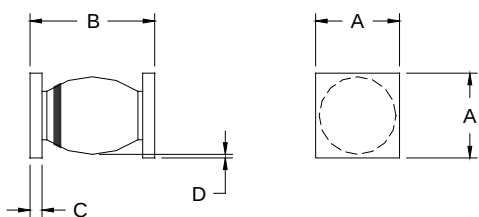
1N5807 – 1N5811 Series

PACKAGE OUTLINE: Axial Leaded ()



DIMENSIONS							
A		B*		C		D	
MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
.115	.142	.130 (.140 typ)	.300 (.166 typ)	.036	.042	.900	1.300

PACKAGE OUTLINE: Surface Mount Square Tab (US / SMS)

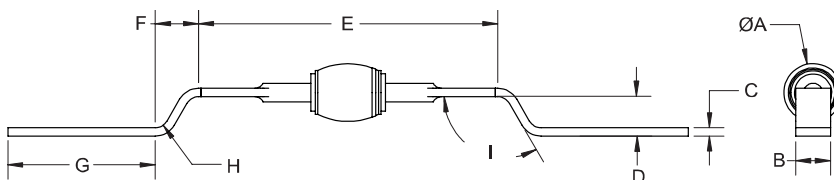


DIMENSIONS							
A		B		C		D	
MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
.137	.148	.200	.225	.019	.028	.003	--

PACKAGE OUTLINE:

Flat Leads (FL) *Non-QPL registered

- Solid silver leads
- Provide stress relief (customizable to customer specifications)
- Ideal for welding to BUS bar
- Typical application: solar array bypass / blocking diodes for photovoltaic (PV) panels



DIMENSIONS														
A		B		C		D		E		F	G		H	I
MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	REF	MIN	MAX	REF	REF
.115	.142	.065	.085	.015	.021	.084	.104	.620	.660	.090	.295	.335	R.03	120°

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