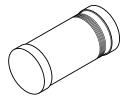


MAXIMUM RATINGS 3/
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RATING		SYMBOL	VALUE	UNIT	
	nd DC SPD5817SM SPD5818SM SPD5819SM	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	20 30 40	Volts	
Average Rectified Output Current					
(Resistive Load, 60Hz, Sine Wave, TA=25°C)		Io	1	Amps	
Peak Surge Current 3/					
(8.3 ms Pulse, Half Sine Wave, superimposed on $I_0$ , allow junction to reach equilibrium between pulses, TA=25 °C)		I <sub>FSM</sub>	50	Amps	
Operating and Storage Temperature		T <sub>OP</sub> & T <sub>STG</sub>	-55 to +125	Ĉ	
Maximum Thermal Resistance					
Junction to End Tab		$\mathbf{R}_{\mathbf{ hetaJE}}$	20	°C/W	

NOTES: <u>1</u>/ For ordering information, Price, and Availability- Contact Factory.

- <u>2</u>/ Screened to MIL-PRF-19500.
- $\underline{3}$ / Unless otherwise specified, all electrical ratings/characteristics @ 25°C.



## SURFACE MOUNT ROUND TAB



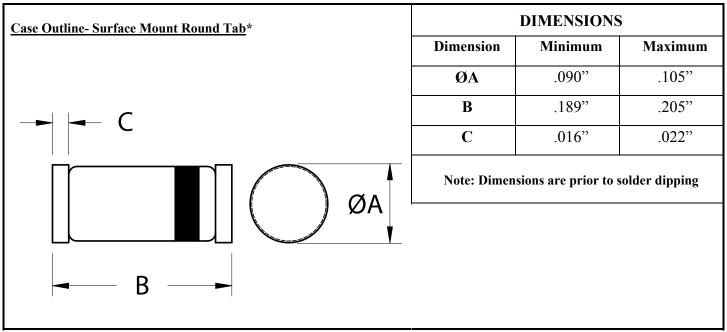
14701 Firestone Blvd \* La Mirada, Ca 90638 Phone: (562) 404-4474 \* Fax: (562) 404-1773 ssdi@ssdi-power.com \* www.ssdi-power.com

## SPD5817SM Thru SPD5819SM

ELECTRICAL CHARACTERISTICS $\frac{3}{2}$								
CHARACTERISTIC	SYMBOL	MAXIMUM	UNIT					
<b>Instantaneous Forward Voltage Drop</b> ( $I_F = 1 \text{ Adc}, T_A = 25^{\circ}\text{C}, 300\text{-}500 \mu\text{s Pulse}$ )	SPD5817SM SPD5818SM SPD5819SM	V <sub>F1</sub>	0.55 0.65 0.70	Vdc				
<b>Instantaneous Forward Voltage Drop</b> (I <sub>F</sub> = 1 Adc, T <sub>A</sub> = -55°C, 300-500µs Pulse)	SPD5817SM SPD5818SM SPD5819SM	V <sub>F2</sub>	0.57 0.67 0.72	Vdc				
<b>Reverse Leakage Current</b> (Rated $V_R$ , $T_A = 25$ °C, 300 $\mu$ s Pulse Minimu	I <sub>R1</sub>	0.50	mA					
Reverse Leakage Current (Rated $V_R$ , $T_A = 100$ °C, 300 $\mu$ s Pulse Minimum)		I <sub>R2</sub>	10	mA				
<b>Junction Capacitance</b> ( $V_R = 5 \text{ Vdc}, T_A = 25^{\circ}\text{C}, f = 1 \text{ MHz}$ )		CJ	120	pF				

NOTES: <u>1</u>/ For ordering information, Price, and Availability- Contact Factory.

- <u>2</u>/ Screened to MIL-PRF-19500.
- $\underline{3}$  Unless otherwise specified, all electrical ratings/characteristics @ 25°C.



\* For information on curves, contact the Factory Representative for Engineering Assistance.

<b>NOTE:</b> All specifications are subject to change without notification. SCD's for these devices should be reviewed by SSDI prior to release.	DATA SHEET #: RS0111J	DOC
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