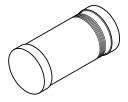


MAXIMUM RATINGS 3/

RATING		SYMBOL	VALUE	UNIT	
	nd DC SPD5817SM SPD5818SM SPD5819SM	V _{RRM} V _{RWM} V _R	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 _{FSM}	50	Amps	
Operating and Storage Temperature		T _{OP} & T _{STG}	-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



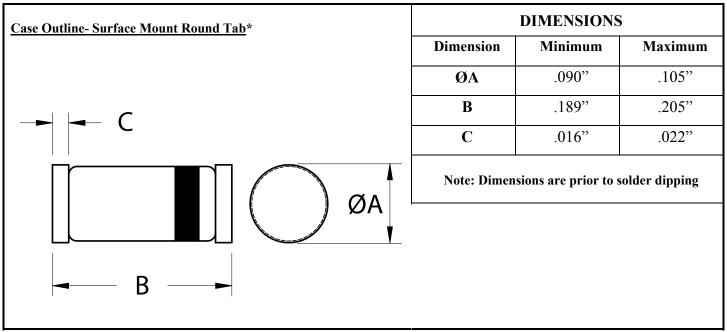
14701 Firestone Blvd * La Mirada, Ca 90638 Phone: (562) 404-4474 * Fax: (562) 404-1773 ssdi@ssdi-power.com * www.ssdi-power.com

SPD5817SM Thru SPD5819SM

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

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- <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.

NOTE: 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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