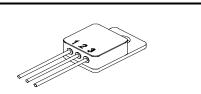


14701 Firestone Blvd * La Mirada, Ca 90638 Phone: (562) 404-4474 * Fax: (562) 404-1773 ssdi@ssdi-power.com * www.ssdi-power.com

TO-257

SSR0509J SSR0510J

Designer's Data Sheet		
Part Number/Ordering Information ^{1/}		
SSR0508J SSR0509J SSR0510J		
L Screening 2/ = Not Screened TX = TX Level TXV = TXV S = S Level		
Lead Options = Straight Leads, DB = Bent Down, UB = Bent Up		



5 AMP 80 - 100 VOLTS**SCHOTTKY RECTIFIER**

SSR0508J

FEATURES:

- **Extremely Low Forward Voltage Drop**
- Low Reverse Leakage
- **Hermetically Sealed Isolated Power Package**
- **Guard Ring for Over-Voltage Protection**
- **Eutectic Die Attach**
- 175°C Operating Junction Temperature
- TX, TXV, or Space Level Screening Available

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse Voltage and DC Blocking Voltage SSR0508J SSR0509J	$ m V_{RRM}$ $ m V_{RWM}$	80 90	Volts
SSR0510J	$\mathbf{V}_{\mathbf{R}}$	100	Voits
Average Rectified Output Current			
(Resistive Load, 60Hz, Sine Wave, TA=25°C)	I_{O}	5	Amps
Peak Surge Current 3/			
(8.3 ms Pulse, Half Sine Wave, superimposed on I_O , allow junction to reach equilibrium between pulses, TA=25 $^{\circ}$ C)	$\mathbf{I}_{\mathrm{FSM}}$	200	Amps
Operating and Storage Temperature	Top & Tstg	-65 to +175	C
Maximum Thermal Resistance 3/			
Junction to Case	$\mathbf{R}_{\mathbf{0JC}}$	1.7	°C/W

NOTES:

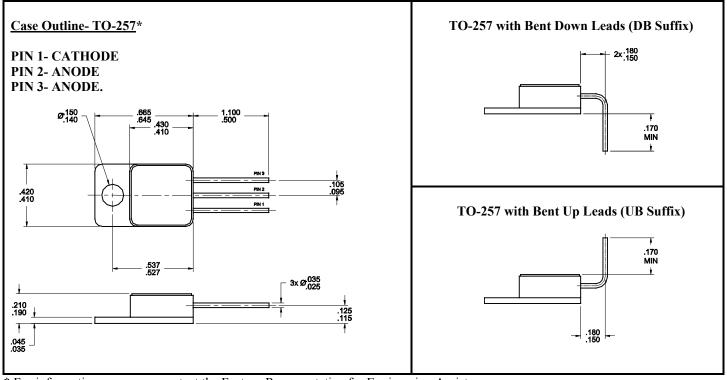
- For ordering information, Price, and Availability- Contact Factory.
- Screened to MIL-PRF-19500.
- For optimal performance, leads 2 & 3 should be connected.



SSR0508J SSR0509J SSR0510J

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ELECTRICAL CHARACTERISTICS			
CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
Instantaneous Forward Voltage Drop (I _F = 1 Adc, T _A = 25°C, Pulse) (I _F = 5 Adc, T _A = 25°C, Pulse)	$egin{array}{c} V_{F1} \ V_{F2} \end{array}$	0.56 0.73	Vdc
Instantaneous Forward Voltage Drop (I _F = 5 Adc, T _A = -55°C, Pulse)	$ m V_{F3}$	0.8	Vdc
Reverse Leakage Current (Rated V_R , $T_A = 25$ °C, Pulse)	I_{R1}	100	μΑ
Reverse Leakage Current (Rated V _R , T _A = 100°C, Pulse)	I_{R2}	5	mA
Junction Capacitance (V _R = 10 Vdc, T _A = 25°C, f = 1 MHz)	$C_{\mathbf{J}}$	400	pF



^{*} For information on curves, contact the Factory Representative for Engineering Assistance.