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TO-257

SSR0508J SSR0509J SSR0510J

Lead Options

DB = Bent Down, UB = Bent Up

= Straight Leads.

5 AMP 80 - 100 VOLTS SCHOTTKY RECTIFIER

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 SSR0510J	$ m V_{RRM}$ $ m V_{RWM}$	80 90	Volts
	V_R	100	
Average Rectified Output Current			
(Resistive Load, 60Hz, Sine Wave, TA=25 C)	I_0	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)	$\mathbf{I}_{ ext{FSM}}$	200	Amps
Operating and Storage Temperature	T _{OP} & T _{STG}	-65 to +175	C
Maximum Thermal Resistance 3/			
Junction to Case	$\mathbf{R}_{\mathbf{ heta JC}}$	1.7	°C/W

NOTES:

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

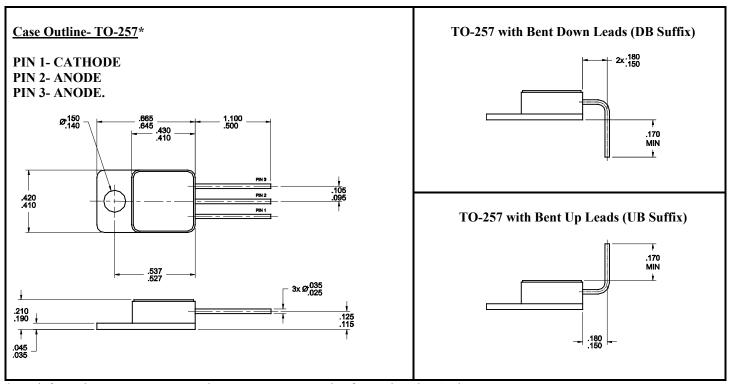
NOTE: All specifications are subject to change without notification. SCD's for these devices should be reviewed by SSDI prior to release.	DATA SHEET #: RS0191C	DOC
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ELECTRICAL CHARACTERISTICS			
CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
Instantaneous Forward 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)	$C_{ m J}$	400	pF



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