


**Solid State Devices, Inc.**

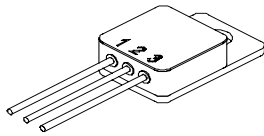
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**Designer's Data Sheet**
**Part Number/Ordering Information <sup>1/</sup>**

SSR1008J — —  
 SSR1009J — —  
 SSR1010J — —

<sup>2/</sup> **Screening** — = Not Screened  
 TX = TX Level  
 TXV = TXV  
 S = S Level

**Lead Options** — = Straight Leads,  
 DB = Bent Down, UB = Bent Up

**TO-257**


**SSR1008J  
 SSR1009J  
 SSR1010J**

**10 AMP  
 80 – 100 VOLTS  
 SCHOTTKY RECTIFIER**

**FEATURES:**

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

**MAXIMUM RATINGS**

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse Voltage and DC Blocking Voltage	SSR1008J SSR1009J SSR1010J	$V_{RRM}$ $V_{RWM}$ $V_R$	80 90 100 Volts
Average Rectified Output Current <sup>3/</sup> (Resistive Load, 60Hz, Sine Wave, TA=25°C)	$I_O$	10	Amps
Peak Surge Current <sup>3/</sup> (8.3 ms Pulse, Half Sine Wave superimposed on $I_O$ , allow junction to reach equilibrium between pulses, TA=25°C)	$I_{FSM}$	200	Amps
Operating and Storage Temperature	$T_{OP}$ & $T_{STG}$	-65 to +175	°C
Maximum Thermal Resistance <sup>3/</sup> Junction to Case	$R_{\theta JC}$	1.7	°C/W

**NOTES:**

<sup>1/</sup> For ordering information, Price, and Availability- Contact Factory.

<sup>2/</sup> Screened to MIL-PRF-19500.

<sup>3/</sup> 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 #: RS0201B**
**DOC**



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**ELECTRICAL CHARACTERISTICS**

CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
<b>Instantaneous Forward Voltage Drop</b> ( $I_F = 1 \text{ Adc}$ , $T_A = 25^\circ \text{C}$ , Pulse) ( $I_F = 5 \text{ Adc}$ , $T_A = 25^\circ \text{C}$ , Pulse) ( $I_F = 10 \text{ Adc}$ , $T_A = 25^\circ \text{C}$ , Pulse)	$V_{F1}$ $V_{F2}$ $V_{F3}$	0.56 0.73 0.85	Vdc
<b>Instantaneous Forward Voltage Drop</b> ( $I_F = 5 \text{ Adc}$ , $T_A = -55^\circ \text{C}$ , Pulse)	$V_{F4}$	0.8	Vdc
<b>Reverse Leakage Current</b> (Rated $V_R$ , $T_A = 25^\circ \text{C}$ , Pulse)	$I_{R1}$	100	$\mu\text{A}$
<b>Reverse Leakage Current</b> (Rated $V_R$ , $T_A = 100^\circ \text{C}$ , Pulse)	$I_{R2}$	5	mA
<b>Junction Capacitance</b> ( $V_R = 10 \text{ Vdc}$ , $T_A = 25^\circ \text{C}$ , $f = 1 \text{ MHz}$ )	$C_J$	400	pF

