



Solid State Devices, Inc.

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

**SSR1008J
 SSR1009J
 SSR1010J**

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

Designer's Data Sheet

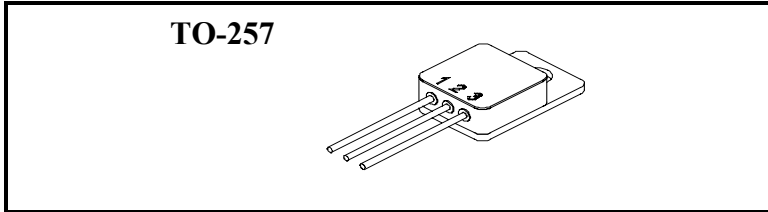
Part Number/Ordering Information ^{1/}

SSR1008J — —
 SSR1009J — —
 SSR1010J — —

Screening ^{2/} — = Not Screened
 TX = TX Level
 TXV = TXV
 S = S Level

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

- 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 ^{3/} (Resistive Load, 60Hz, Sine Wave, TA=25°C)	I_O	10	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°C)	I_{FSM}	200	Amps
Operating and Storage Temperature	T_{OP} & T_{STG}	-65 to +175	°C
Maximum Thermal Resistance ^{3/} Junction to Case	$R_{\theta JC}$	1.7	°C/W

NOTES:
^{1/} For ordering information, Price, and Availability- Contact Factory.
^{2/} Screened to MIL-PRF-19500.
^{3/} For optimal performance, leads 2 & 3 should be connected..



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ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
Instantaneous Forward Voltage Drop ($I_F = 1 \text{ Adc}$, $T_A = 25^\circ \text{C}$, 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
Instantaneous Forward Voltage Drop ($I_F = 5 \text{ Adc}$, $T_A = -55^\circ \text{C}$, Pulse)	V_{F4}	0.8	Vdc
Reverse Leakage Current (Rated V_R , $T_A = 25^\circ \text{C}$, Pulse)	I_{R1}	100	μA
Reverse Leakage Current (Rated V_R , $T_A = 100^\circ \text{C}$, Pulse)	I_{R2}	5	mA
Junction Capacitance ($V_R = 10 \text{ Vdc}$, $T_A = 25^\circ \text{C}$, $f = 1 \text{ MHz}$)	C_J	400	pF

