



Solid State Devices, Inc.

14701 Firestone Blvd * La Mirada, Ca 90638
Phone: (562) 404-4474 * Fax: (562) 404-1773
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Designer's Data Sheet

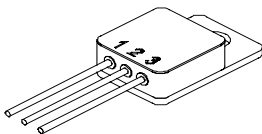
Part Number/Ordering Information ^{1/}

SSR1008J — —
SSR1009J — —
SSR1010J — —

^{2/} **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 ^{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..

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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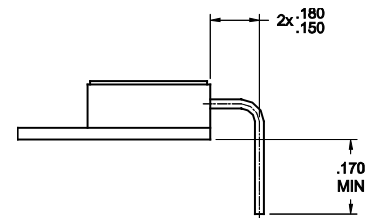
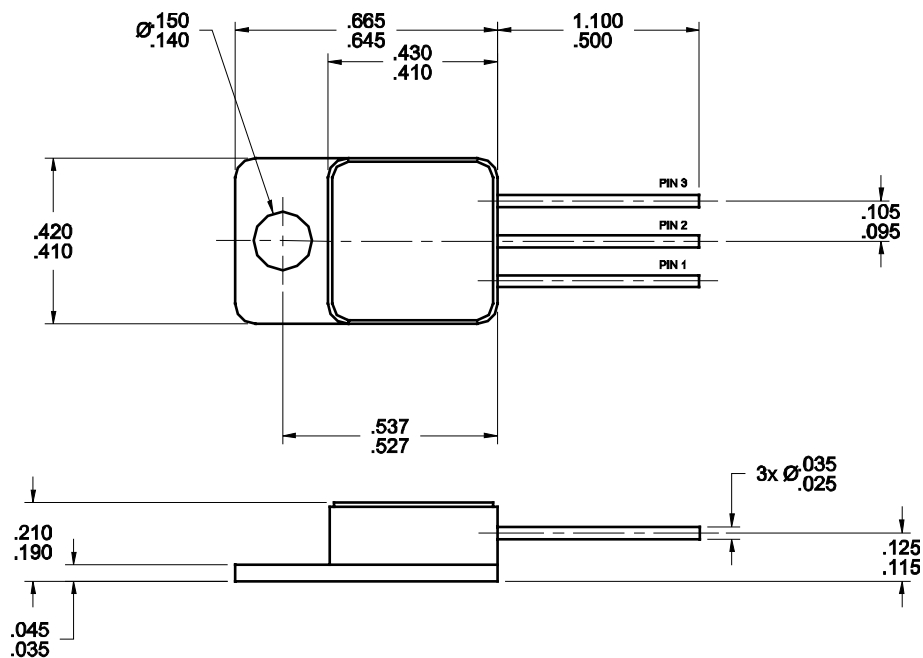
SSR1008J
SSR1009J
SSR1010J

ELECTRICAL CHARACTERISTICS

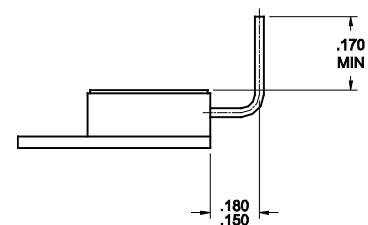
CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
Instantaneous Forward Voltage Drop ($I_F = 1 \text{ Adc}$, $T_A = 25^\circ \text{C}$, Pulse) ($I_F = 5 \text{ Adc}$, $T_A = 25^\circ \text{C}$, Pulse) ($I_F = 10 \text{ Adc}$, $T_A = 25^\circ \text{C}$, Pulse)	V_{F1} V_{F2} V_{F3}	0.56 0.73 0.85	Vdc
Instantaneous Forward 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

Case Outline- TO-257*

PIN OUT:
PIN 1- CATHODE
PIN 2- ANODE
PIN 3- ANODE



Bent Down Leads (DB Suffix)



Up Leads (UB Suffix)