

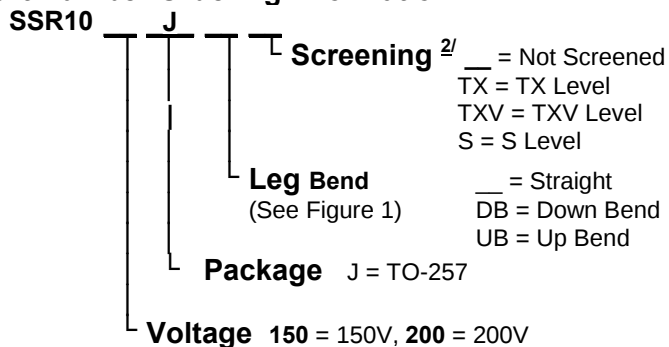


Solid State Devices, Inc.

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Designer's Data Sheet

Part Number/Ordering Information ^{1/}



SSR10150J SSR10200J

10 AMPS 150 - 200 VOLTS SCHOTTKY RECTIFIER

FEATURES:

- High Surge Rating
- Low Reverse Leakage Current
- Low Junction Capacitance
- Isolated Hermetically Sealed Package
- Ultrasonic Aluminum Wire Bonds
- Weight: 3.2 gr. (typ)
- Custom Lead Forming Available
- TX, TXV, and Space Level Screening Available Consult Factory ^{2/}

MAXIMUM RATINGS	Symbol	Value	Units
Peak Repetitive Reverse Voltage and DC Blocking Voltage	SSR10150J SSR10200J	V_{RRM} V_{RWM} V_R	150 200 Volts
Average Rectified Forward Current (Resistive Load, 60 Hz, Sine Wave, $T_A=25^{\circ}C$) ^{4/}	I_O	10	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, $T_A=25^{\circ}C$)	I_{FSM}	100	Amps
Operating and Storage Temperature	T_{OP} & T_{STG}	-65 to +200	$^{\circ}C$
Maximum Thermal Resistance Junction to Case	$R_{\theta JC}$	4.0	$^{\circ}C/W$

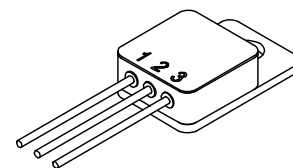
NOTES: 1/ For ordering information, price, operating curves, and availability - contact factory.

2/ Screening based on MIL-PRF-19500. Screening flows available on request.

3/ Recovery conditions: $I_F = 0.5$ Amp, $I_R = 1.0$ Amp, rec. to 0.25 Amp.

4/ Legs 2 & 3 tied together.

TO-257



NOTE: All specifications are subject to change without notification.
SCD's for these devices should be reviewed by SSDI prior to release.

DATA SHEET #: SH0078B

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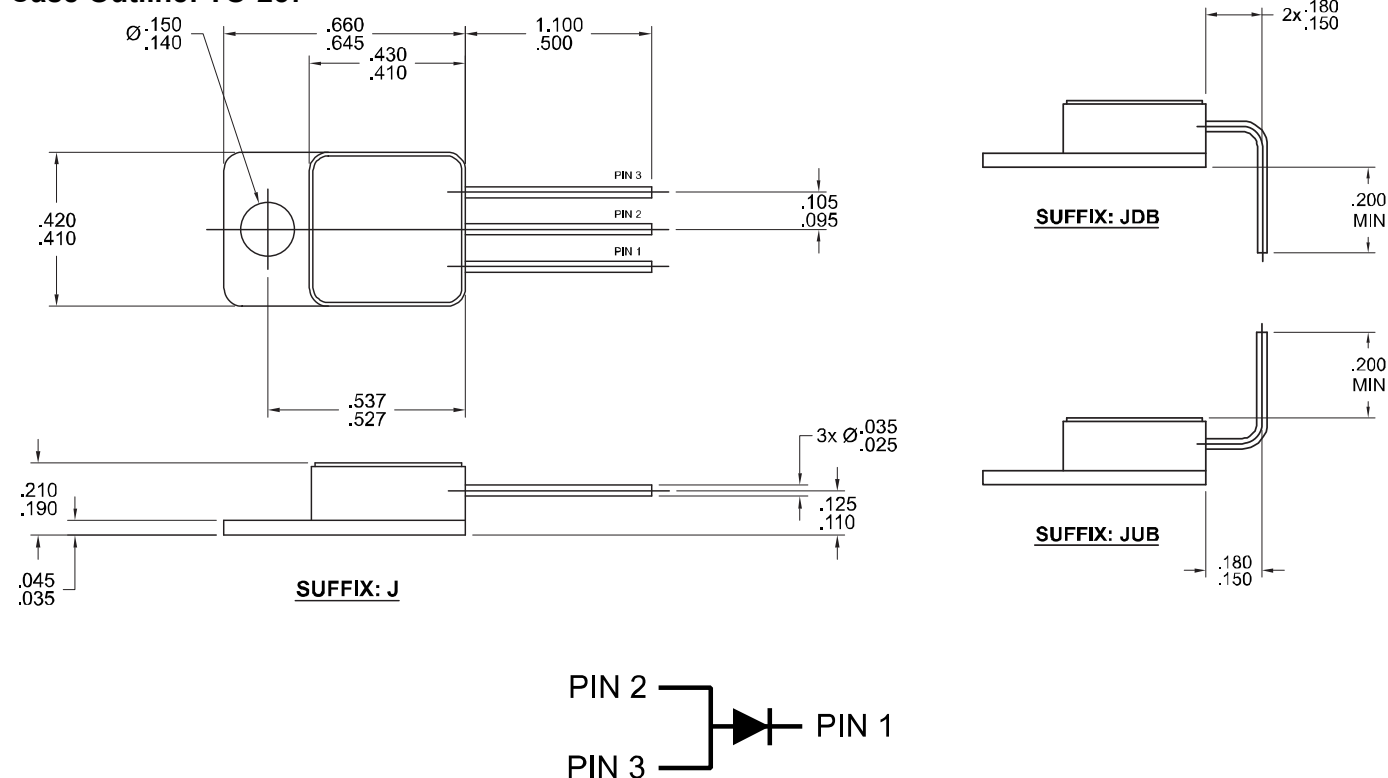
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SSR10150J SSR10200J

ELECTRICAL CHARACTERISTICS	Symbol	-55	25	100	125	150	Unit
Instantaneous Forward Voltage Drop typical ($I_F = 1$ Amp, 300 μ sec Pulse) maximum	V_F	690 -	625 650	520 -	475 530	435 -	mVolts
Instantaneous Forward Voltage Drop typical ($I_F = 5$ Amps, 300 μ sec Pulse) maximum	V_F	950 -	780 820	680 -	640 710	600 -	mVolts
Instantaneous Forward Voltage Drop typical ($I_F = 10$ Amps, 300 μ sec Pulse) maximum	V_F	1060 -	845 900	780 -	750 830	710 -	mVolts
Reverse Leakage Current typical (Rated V_R , 300 μ sec pulse minimum) maximum	I_R	0.0001 -	0.0005 0.005	0.2 -	0.85 5	2.5 -	mA
Junction Capacitance typical ($V_R = 10 V_{DC}$, $T_A = 25^\circ C$, $f = 1$ MHz) maximum	C_J	-	135 250	-	-	-	pF

Case Outline: TO-257



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