



Solid State Devices, Inc.

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SSR40150J SSR40200J

**40 AMPS
150 - 200 VOLTS
SCHOTTKY RECTIFIER**

Designer's Data Sheet

Part Number/Ordering Information ^{1/}

SSR40 **J** **Screening** ^{2/} **Leg Bend** **Package** **Voltage**

____ = Not Screened
TX = TX Level
TXV = TXV Level
S = S Level
____ = Straight
DB = Down Bend
UB = Up Bend
J = TO-257
150 = 150V, 200 = 200V

FEATURES:

- High Surge Rating
- Low Reverse Leakage Current
- Low Junction Capacitance
- Isolated Hermetically Sealed Package
- Ultrasonic Aluminum Wire Bonds
- 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	SSR40150J SSR40200J 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	40	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, $T_A=25^{\circ}C$)	I_{FSM}	250	Amps
Operating and Storage Temperature	T_{OP} & T_{STG}	-65 to +200	$^{\circ}C$
Maximum Thermal Resistance Junction to Case	$R_{\theta JC}$	2.0	$^{\circ}C/W$

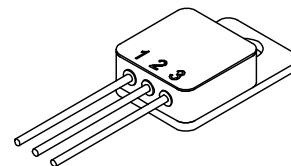
NOTES: 1/ For ordering information, price, operating curves, and availability - contact factory.

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 #: SH0065B

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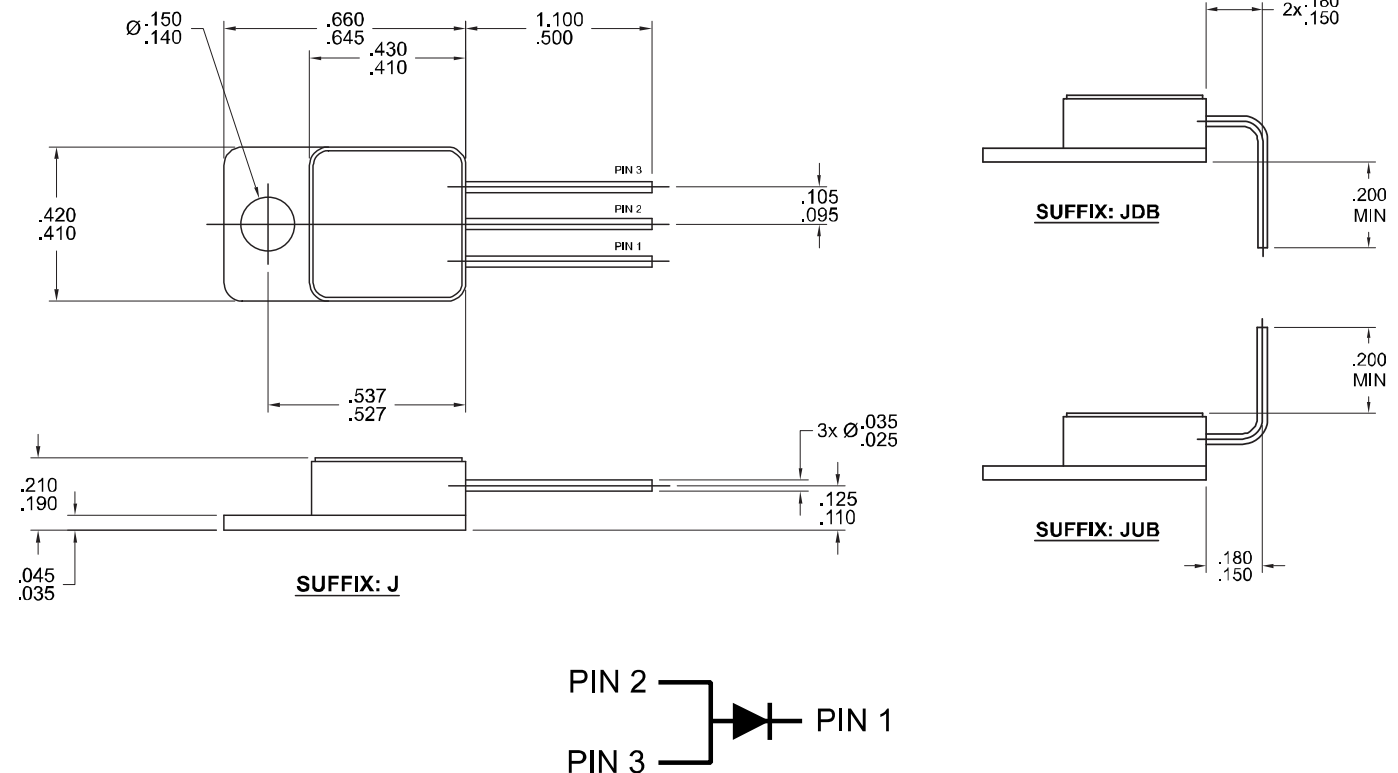
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ELECTRICAL CHARACTERISTICS per leg	Symbol	-55	25	100	125	150	Unit
Instantaneous Forward Voltage Drop typical ($I_F = 5$ Amps, 300 μ sec Pulse) maximum	V_F	770 -	700 800	580 -	540 650	500 -	mVolts
Instantaneous Forward Voltage Drop typical ($I_F = 15$ Amps, 300 μ sec Pulse) maximum	V_F	1000 -	840 930	740 -	710 800	680 -	mVolts
Instantaneous Forward Voltage Drop typical ($I_F = 25$ Amps, 300 μ sec Pulse) maximum	V_F	1300 -	950 1050	870 -	850 950	820 -	mVolts
Instantaneous Forward Voltage Drop typical ($I_F = 40$ Amps, 300 μ sec Pulse) maximum	V_F	1600 -	1075 1200	1040 -	1000 1100	980 -	mVolts
Reverse Leakage Current typical (Rated V_R , 300 μ sec pulse minimum) maximum	I_R	0.0001 -	0.002 0.01	0.6 -	3 10	10 -	mA
Junction Capacitance typical ($V_R = 10$ V _{DC} , $T_A = 25^\circ\text{C}$, $f = 1$ MHz) maximum	C_J	-	400 500	-	-	-	pF

Case Outline: TO-257



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