



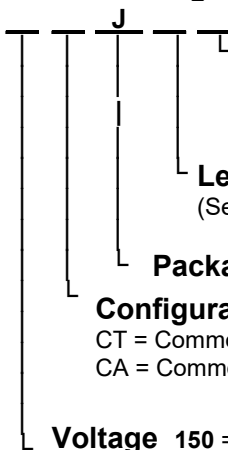
Solid State Devices, Inc.

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

Designer's Data Sheet

Part Number/Ordering Information^{1/}

SSR20



Screening^{2/}

___ = Not Screened
TX = TX Level
TXV = TXV Level
S = S Level

Leg Bend

(See Figure 1)

___ = Straight
DB = Down Bend
UB = Up Bend

Package J = TO-257

Configuration

CT = Common Cathode
CA = Common Anode

Voltage 150 = 150 V, 200 = 200 V

SSR20150CTJ thru SSR20200CAJ

**20 AMP
150 - 200 VOLTS
CENTERTAP
SCHOTTKY RECTIFIER**

FEATURES:

- High surge rating
- Low reverse leakage current
- Low junction capacitance
- Isolated hermetically sealed package
- Ultrasonic aluminum wire bonds
- Weight: 3.2 g (typ)
- Custom lead forming available
- Available in Common Anode and Common Cathode configurations
- TX, TXV, and Space level screening available - consult factory^{2/}

MAXIMUM RATINGS		Symbol	Value	Unit
Peak Repetitive Reverse Voltage and DC Blocking Voltage	SSR20150CTJ SSR20200CTJ	V_{RRM} V_{RWM} V_R	150 200	V
Average Rectified Forward Current (Resistive Load, 60 Hz, Sine Wave, $T_A = 25^\circ\text{C}$) ^{3/}		I_O	20	A
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, $T_A = 25^\circ\text{C}$) ^{4/}		I_{FSM}	100	A
Operating and Storage Temperature		$T_{OP} \& T_{STG}$	-65 to +200	$^\circ\text{C}$
Maximum Thermal Resistance ^{4/} Junction to Case		$R_{\theta JC}$	4.0	$^\circ\text{C/W}$

NOTES:

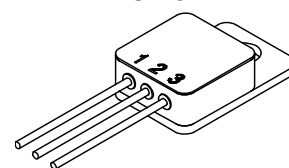
1/ For ordering information, price, operating curves, and availability - contact factory.

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

3/ Legs 1 & 3 tied together.

4/ Per leg.

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 #: SH0094C

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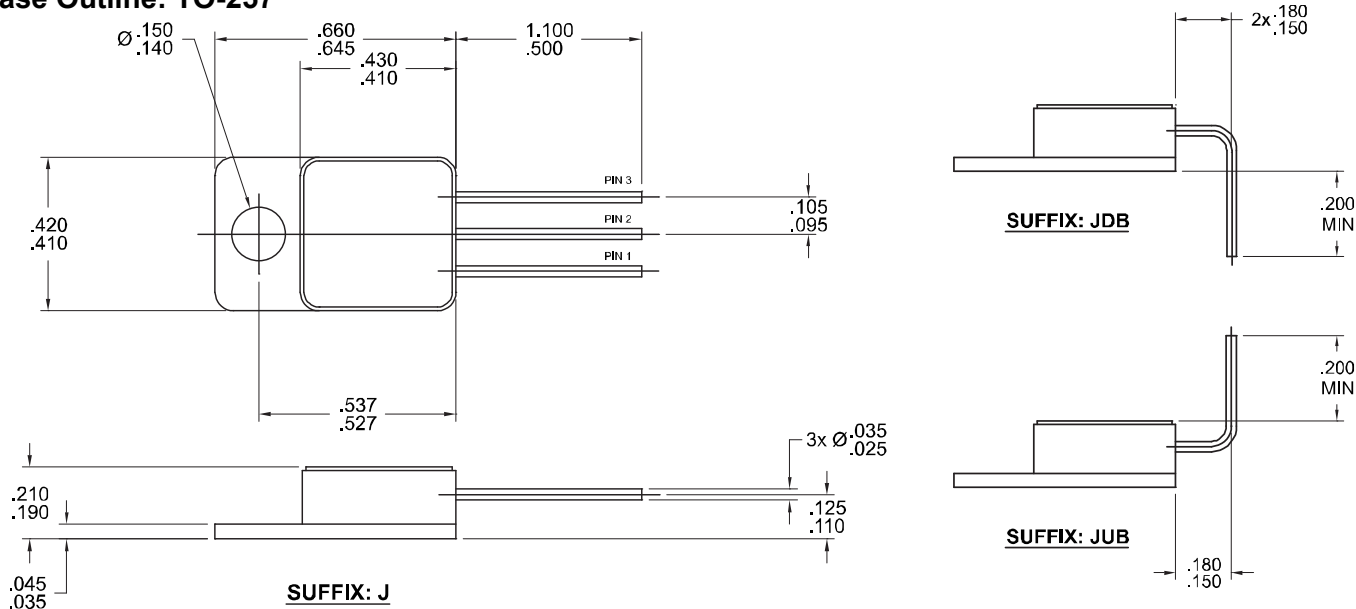
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SSR20150CTJ thru SSR20200CAJ

ELECTRICAL CHARACTERISTICS per leg		Symbol	-55	25	100	125	150	Unit
Instantaneous Forward Voltage Drop ($I_F = 1$ Amp, 300 μ sec Pulse)	typical	V_F	690	625	520	475	435	mV
	maximum		-	670	-	550	-	
Instantaneous Forward Voltage Drop ($I_F = 5$ Amps, 300 μ sec Pulse)	typical	V_F	950	780	680	640	600	mV
	maximum		-	850	-	740	-	
Instantaneous Forward Voltage Drop ($I_F = 10$ Amps, 300 μ sec Pulse)	typical	V_F	1060	845	780	750	710	mV
	maximum		-	975	-	880	-	
Reverse Leakage Current (Rated V_R , 300 μ sec pulse minimum)	typical	I_R	0.0001	0.0005	0.2	0.85	2.5	mA
	maximum		-	0.01	-	5	-	
Junction Capacitance ($V_R = 10$ V _{DC} , $T_A = 25^\circ\text{C}$, $f = 1$ MHz)	typical	C_J	-	135	-	-	-	pF
	maximum		-	250	-	-	-	

Case Outline: TO-257



Pin Assignment

Code	Function	Pin 1	Pin 2	Pin 3
CT	Common Cathode	Anode 1	Cathode	Anode 2
CA	Common Anode	Cathode 1	Anode	Cathode 2

For information on curves, contact the Factory Representative for Engineering Assistance.

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