



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

**SSR10150G thru SSR10200G
 and
 SSR10150S.5 thru SSR10200S.5**

Designer's Data Sheet

Part Number/Ordering Information ^{1/}
SSR10

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

Package G = Cerpack
 S.5 = SMD.5

Voltage 150 = 150V, 200 = 200V

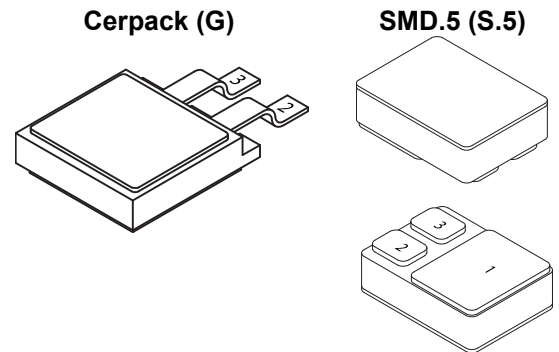
**10 AMPS
 150 - 200 VOLTS
 SCHOTTKY RECTIFIER**

- FEATURES:**
- High Surge Rating
 - Low Reverse Leakage Current
 - Low Junction Capacitance
 - Hermetically Sealed Package
 - Ultrasonic Aluminum Wire Bonds
 - Cerpack: 1.05 gr. (typ) / SMD.5: 0.95 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	SSR10150	V_{RRM}	150	Volts
	SSR10200	V_{RWM} V_R	200	
Average Rectified Forward Current (Resistive Load, 60 Hz, Sine Wave, $T_A=25^\circ\text{C}$) ^{4/}		I_O	10	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, $T_A=25^\circ\text{C}$)		I_{FSM}	100	Amps
Operating and Storage Temperature		T_{OP} & T_{STG}	-65 to +200	$^\circ\text{C}$
Maximum Thermal Resistance Junction to Case		$R_{\theta JC}$	3.0	$^\circ\text{C/W}$

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/ Recovery conditions: $I_F = 0.5$ Amp, $I_R = 1.0$ Amp, rec. to 0.25 Amp.
- 4/ Legs 2 & 3 tied together.





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ELECTRICAL CHARACTERISTICS per leg	Symbol	-55	25	100	125	150	Unit
Instantaneous Forward Voltage Drop typical ($I_F = 1$ Amps, 300 μ sec Pulse) maximum	V_F	680 -	620 650	515 -	475 530	435 -	mVolts
Instantaneous Forward Voltage Drop typical ($I_F = 5$ Amps, 300 μ sec Pulse) maximum	V_F	925 -	750 800	650 -	610 660	570 -	mVolts
Instantaneous Forward Voltage Drop typical ($I_F = 10$ Amps, 300 μ sec Pulse) maximum	V_F	990 -	780 840	715 -	675 770	640 -	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: Cerpack (G)

PIN OUT:
TAB: CATHODE
PIN 2: ANODE
PIN 3: ANODE
 Note: For optimal performance, connect anode terminals together.

Case Outline: SMD.5 (S.5)

PIN OUT:
PIN 1: CATHODE
PIN 2: ANODE
PIN 3: ANODE
 Note: For optimal performance, connect anode terminals together.