



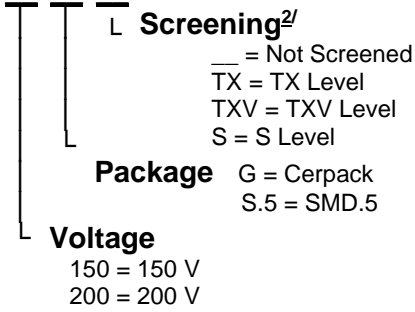
Solid State Devices, Inc.

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SSR10150G thru SSR10200G and SSR10150S.5 thru SSR10200S.5

Designer's Data Sheet

Part Number/Ordering Information^{1/} SSR10



**10 AMP
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	Unit
Peak Repetitive Reverse Voltage and DC Blocking Voltage	SSR10150 SSR10200	V_{RRM} V_{RWM} V_R	150 200	V
Average Rectified Forward Current (Resistive Load, 60 Hz, Sine Wave, $T_A = 25^\circ\text{C}$) ^{4/}		I_o	10	A
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, $T_A = 25^\circ\text{C}$)		I_{FSM}	100	A
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:

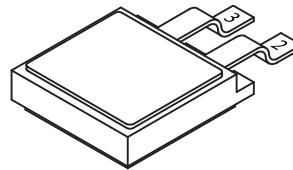
1/ For ordering information, price, operating curves, and availability - contact factory.

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

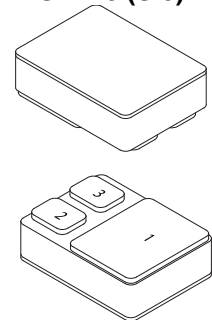
3/ Recovery conditions: $I_F = 0.5$ Amp, $I_R = 1.0$ Amp, rec. to 0.25 Amp.

4/ Legs 2 & 3 tied together.

Cerpack (G)



SMD.5 (S.5)



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

DATA SHEET #: SH0079C

DOCX



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and
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ELECTRICAL CHARACTERISTICS per leg		Symbol	-55	25	100	125	150	Unit
Instantaneous Forward Voltage Drop ($I_F = 1$ A, 300 μ sec Pulse)	typical	V_F	680	630	520	480	440	mV
	maximum		-	650	-	530	-	
Instantaneous Forward Voltage Drop ($I_F = 5$ A, 300 μ sec Pulse)	typical	V_F	925	770	660	625	585	mV
	maximum		-	800	-	660	-	
Instantaneous Forward Voltage Drop ($I_F = 10$ A, 300 μ sec Pulse)	typical	V_F	990	840	740	710	675	mV
	maximum		-	860	-	770	-	
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		-	0.005	-	5	-	
Junction Capacitance ($V_R = 10$ V _{DC} , $T_A = 25^\circ$ C, $f = 1$ MHz)	typical	C_J	-	135	-	-	-	pF
	maximum		-	250	-	-	-	

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.