PRELIMINARY

SSR10C120CT Series

Solid State Devices, Inc.
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10 A / 1200 V
Schottky Silicon Carbide
Centertap Rectifier

Designer's Data Sheet

Part Number / Ordering Information [1/]

SSR10C ___ ___ ___ ___

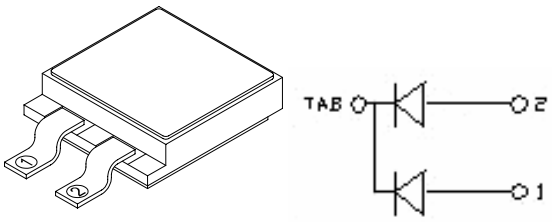
- **Screening** ___ = Not Screened, TX = TX Level, TXV = TXV, S = S Level
- **Package** [2/] G = Cerpack
- **Configuration** CT = Centertap
- **Voltage** 100 = 1000 V, 120 = 1200 V

FEATURES:

- 1200 Volt Silicon Carbide Schottky Rectifier
- Average Output Current 10 Amps
- No Reverse Recovery
- No Forward Recovery
- No Switching Time Change Over Temperature
- Small Package Size
- TX, TXV, and Space Level Screening Available. Consult Factory.

MAXIMUM RATINGS		Symbol	Value	Units
Peak Repetitive and Peak Reverse Voltage	**SSR10C100CT** **SSR10C120CT**	V_{RRM} V_R	1000 1200	**Volts**
Average Rectified Forward Current (Resistive Load, 60 Hz, Sine Wave)	Per Leg Total	I_O	5 10	**Amps**
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, T_A = 25°C)		I_{FSM}	60	**Amps**
Operating & Storage Temperature		T_{OP} & T_{stg}	-55 to +250	**°C**
Junction Temperature		T_J	-55 to +250	**°C**
Maximum Thermal Resistance (Junction to Case)		$R_{\theta JC}$	1.5	**°C/W**

CERPACK (G)



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ELECTRICAL CHARACTERISTICS 3/		Symbol	Min	Typ	Max	Units
Instantaneous Forward Voltage Drop (T_A=25ºC, 300 - 500 µsec pulse)	I_F = 2.0 A I_F = 5.0 A I_F = 10 A	V_{F1} V_{F2} V_{F3}	— — —	1.21 1.65 2.10	1.30 1.75 2.50	V_{DC}
Instantaneous Forward Voltage Drop (300 - 500 µsec pulse)	T_A= -55ºC, I_F = 5 A T_A= 150 ºC, I_F = 5 A	V_{F4} V_{F5}	— —	1.46 2.60	1.50 2.80	V_{DC}
Reverse Leakage Current (Rated V_R, T_A = 25ºC, 300 µsec pulse minimum)		I_{R1}	—	20	250	µA
Reverse Leakage Current (Rated V_R, T_A = 150ºC, 300 µsec pulse minimum)		I_{R2}	—	100	1000	µA
Junction Capacitance (V_R = 10V, f = 1MHz, T_A = 25°C)		C_J	—	280	320	pF

NOTES:

* Pulse Test: Pulse Width = 300 µsec, Duty Cycle = 2%

1/ For Ordering Information, Price, and Availability Contact Factory.

2/ For Package Outlines Contact Factory.

3/ Unless Otherwise Specified, All Electrical Characteristics @25ºC

Available Part Numbers:

SSR10C100CTG
SSR10C120CTG

PIN ASSIGNMENT			
Package	**Pin 1**	**Pin 2**	**Pin 3 (Tab)**
Cerpack (G)	Anode	Anode	Cathode