Solid State Devices, Inc.
14701 Firestone Blvd * La Mirada, Ca 90638
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SSR10C60CT Series

10 A / 600 V
Schottky Silicon Carbide
Centertap Rectifier

Designer's Data Sheet

Part Number / Ordering Information [1/]

SSR10C ___

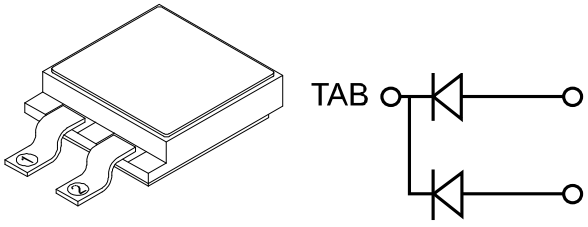
- **Screening** __ = Not Screened, TX = TX Level, TXV = TXV, S = S Level
- **Package** [2/] G = Cerpack
- **Configuration** CT = Centertap
- **Voltage** 40 = 400 V, 50 = 500 V, 60 = 600 V

FEATURES:

- 600 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	**SSR10C40CT** **SSR10C50CT** **SSR10C60CT**	V_{RRM} V_R	400 500 600	**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, $T_A = 25^oC$)		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	Condition	Temperature (T_A)						Units
			-55°C		25°C		150°C		
			typ.	max	typ.	max	typ.	max	
Instantaneous Forward Voltage Drop (300 - 500 µsec pulse)	V_{F1}	I_F = 2.0 A	---	---	1.15	1.25	---	---	V_{DC}
	V_{F2}	I_F = 5.0 A	---	---	1.25	1.55	---	---	
	V_{F3}	I_F = 10.0A	---	---	1.5	1.9	---	---	
	V_{F4}	I_F = 5.0 A	1.3	1.8	---	---	---	---	
	V_{F5}	I_F = 5.0 A	---	---	---	---	1.25	1.8	
Reverse Leakage Current (300 µsec pulse min)	I_{R1}	At rated V_R	---		25	250	---	---	µA
	I_{R2}		---		---	---	50	1000	
Junction Capacitance	C_J	V_R = 10V f = 1MHz	---		200	350	---		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:

SSR10C40CTG
SSR10C50CTG
SSR10C60CTG

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