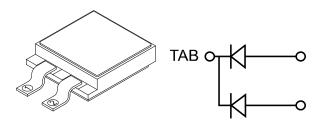


MAXIMUM RATINGS	Symbol	Value	Units	
Peak Repetitive and Peak Reverse Voltage	SSR10C30CT SSR10C40CT SSR10C50CT SSR10C60CT	V <sub>RRM</sub> V <sub>R</sub>	300 400 500 600	Volts
Average Rectified Forward Current (Resistive Load, 60 Hz, Sine Wave)	Per Leg Total	Ι <sub>ο</sub>	5 10	Amps
<b>Peak Surge Current</b> (8.3 ms Pulse, Half Sine Wave, $T_A = 25^{\circ}C$ , Per Leg)		I <sub>FSM</sub>	20	Amps
Operating & Storage Temperature		T <sub>OP</sub> & T <sub>stg</sub>	-55 to +250	°C
Junction Temperature		TJ	-55 to +250	°C
Maximum Thermal Resistance (Junction to Case)		$R_{\theta JC}$	1.5	°C/W

## CERPACK (G)



NOTE: All specifications are subject to change without notification.<br/>SCD's for these devices should be reviewed by SSDI prior to release.DATA SHEET #: SH0036CDOC

# Solid State Devices, Inc.

## SSR10C60CT Series

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

ELECTRICAL CHARACTERISTICS $\frac{3}{2}$	Symbol	Condition	Temperature (T <sub>A</sub> )				Units		
			-55°C		25°C		150°C		
			typ.	max	typ.	max	typ.	max	
Instantaneous Forward Voltage Drop (300 - 500 μsec pulse)	V <sub>F1</sub>	$I_{\rm F} = 2.0  {\rm A}$			1.15	1.25			
	V <sub>F2</sub>	$I_{\rm F} = 5.0  {\rm A}$			1.45	1.55			
	V <sub>F3</sub>	$I_{F} = 10.0A$			1.95	2.0			V <sub>DC</sub>
	V <sub>F4</sub>	$I_{F} = 5.0 A$	1.5	1.8					
	$V_{F5}$	I <sub>F</sub> = 5.0 A					1.6	1.8	
Reverse Leakage Current	I <sub>R1</sub>	At rated $V_R$	-		10	250			μΑ
(300 μsec pulse min)	I <sub>R2</sub>		-				20	1000	μπ
Junction Capacitance	C」	V <sub>R</sub> = 10V f = 1MHz	-		100	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 @25°C

#### Available Part Numbers: -----G G G

SSR10C30CTG
SSR10C40CTG
SSR10C50CTG
SSR10C60CTG

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

<b>NOTE:</b> All specifications are subject to change without notification. SCD's for these devices should be reviewed by SSDI prior to release.	DATA SHEET #: SH0036C	DOC
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