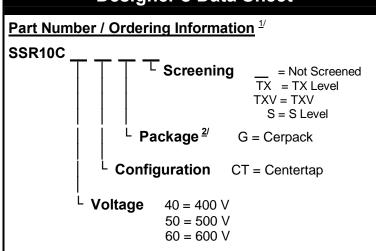


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Designer's Data Sheet



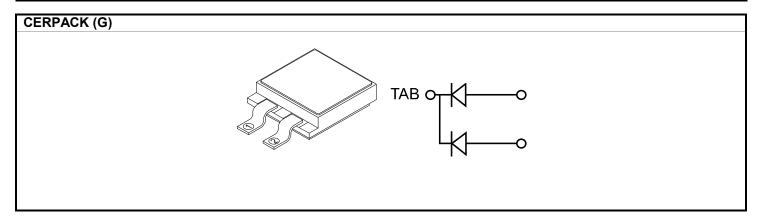
SSR10C60CT Series

10 A / 600 V Schottky Silicon Carbide Centertap Rectifier

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	$oldsymbol{V_{RRM}}{oldsymbol{V_{R}}}$	400 500 600	Volts
Average Rectified Forward Current (Resistive Load, 60 Hz, Sine Wave)	Per Leg Total	lo	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		TJ	-55 to +250	°C
Maximum Thermal Resistance (Junction to Case)		R _{eJC}	1.5	°C/W





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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}	$I_F = 2.0 \text{ A}$			1.15	1.25			
	V_{F2}	$I_F = 5.0 A$			1.25	1.55			
	V_{F3}	$I_F = 10.0A$			1.5	1.9			V_{DC}
	V_{F4}	$I_F = 5.0 A$	1.3	1.8					
	V_{F5}	$I_F = 5.0 \text{ A}$					1.25	1.8	
Reverse Leakage Current	I _{R1}	At roted \/	-		25	250			^
(300 μsec pulse min)	I_{R2}	At rated V _R	-				50	1000	μΑ
Junction Capacitance	CJ	$V_R = 10V$ 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 @25°C

Available Part Numbers:	
SSR10C40CTG	
SSR10C50CTG	
SSR10C60CTG	

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