



Solid State Devices, Inc.

14830 Valley View Blvd * La Mirada, Ca 90638
 Phone: (562) 404-7855 * Fax: (562) 404-1773
 ssdi@ssdi-power.com * www.ssdi-power.com

SSR3045CTG

**15 AMP per leg / 45 Volts
 LOW VOLTAGE DROP
 SCHOTTKY POWER DIODE
 COMMON CATHODE CENTERTAP**

DESIGNER'S DATA SHEET

CerPack

SSR3045CT

Screening ^{2/} ___ = Commercial
 TX = TX Level
 TXV = TXV Level
 S = S Level

Package: G = CerPack

- Features:**
- Extremely Low Forward Voltage Drop
 - Low reverse leakage
 - Excellent high temperature performance
 - Hermetically Sealed, low thermal resistance power Package
 - Eutectic die attach and monometallic contacts for improved reliability
 - TX, TXV, S-Level screening available

Maximum Ratings	Symbol	Value	Units
Peak Repetitive Reverse Voltage and DC Blocking Voltage	V_{RWM} V_R	45	V
Average Rectified Forward Current	I_O	15	A
Peak Surge Current	I_{FSM}	250	A
Peak Reverse Energy	E_R	0.5	mJ
Operating & Storage Temperature	T_{OP} & T_{STG}	-55 to +150	°C
Maximum Thermal Resistance (Junction to Case)	$R_{\theta JC}$	2.25	°C/W

**PACKAGE OUTLINE:
 CERPACK**

**PINOUT:
 PIN 1: ANODE 1
 PIN 2: ANODE 2
 PAD: CATHODE**

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

DATA SHEET #: SH0035A DOC



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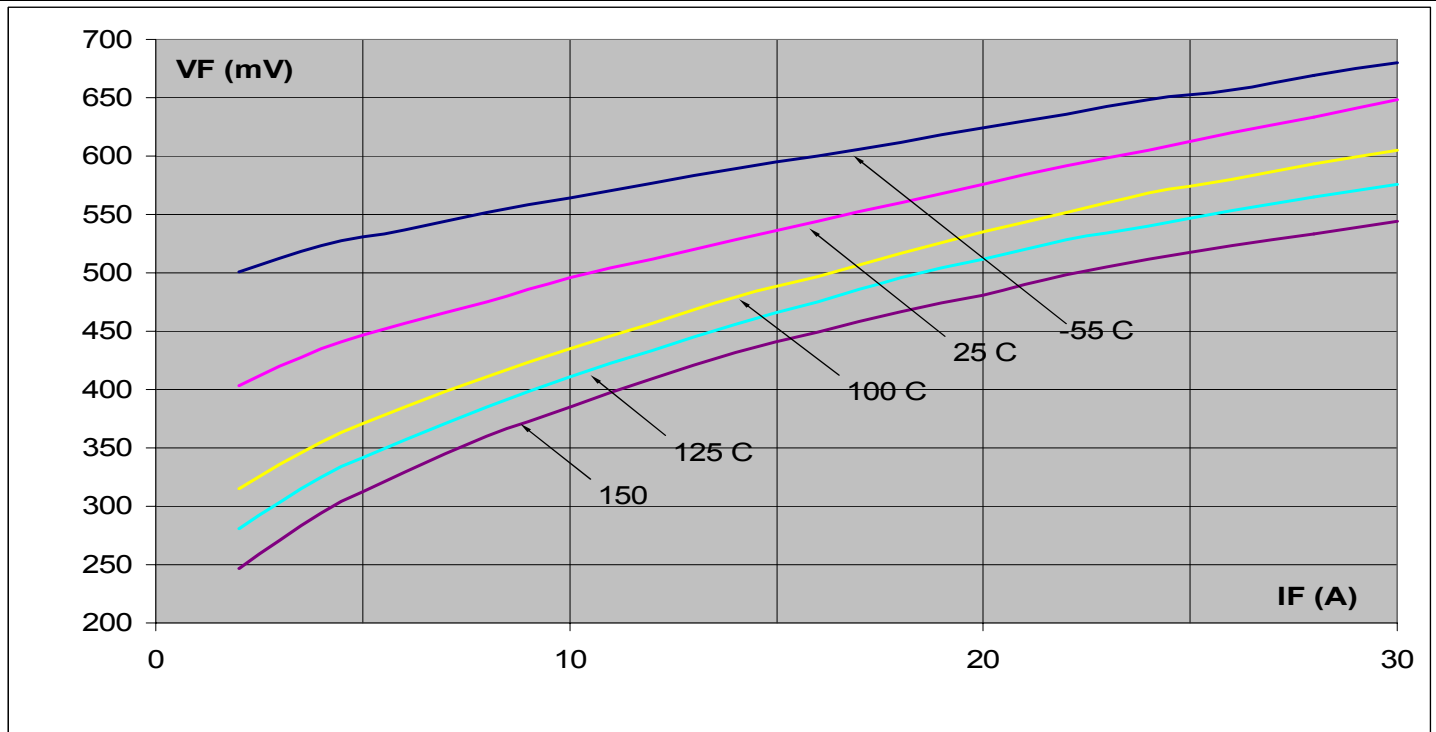
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Electrical Characteristics ^{1/} , per leg		Symbol	Min	Typ	Max	Units
Instantaneous Forward Voltage Drop	$I_F = 1\text{ A}$	V_{F1}		430	—	
	$I_F = 5\text{ A}$	V_{F2}	—	520	600	mV
	$I_F = 10\text{ A}$	V_{F3}		600	—	
	$I_F = 15\text{ A}$	V_{F4}		700	800	
Instantaneous Forward Voltage Drop, $T_c = 125^\circ\text{C}$	$I_F = 5\text{ A}$	V_{F5}	—	400	500	mV
	$I_F = 15\text{ A}$	V_{F6}		600	700	
Instantaneous Forward Voltage Drop, $T_c = -55^\circ\text{C}$	$I_F = 5\text{ A}$	V_{F7}	—	580	—	mV
	$I_F = 15\text{ A}$	V_{F8}		750	—	
Reverse Leakage Current	$V_R = 45\text{V}$	I_{R1}	—	10	50	μA
Reverse Leakage Current, $T_c = 100^\circ\text{C}$	$V_R = 45\text{V}$	I_{R2}	—	1500	—	μA
Reverse Leakage Current, $T_c = 125^\circ\text{C}$	$V_R = 45\text{V}$	I_{R3}	—	6.5	15	mA
Junction Capacitance	$V_R = 10\text{V}, f = 1\text{ MHz}$	C_{j1}	—	500	600	pF

NOTES: * Pulse Test: Pulse Width = 300 μsec , Duty Cycle = 2%.
^{1/}Unless Otherwise Specified, All Electrical Characteristics @25°C



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