



Solid State Devices, Inc.

14830 Valley View Blvd * La Mirada, Ca 90638

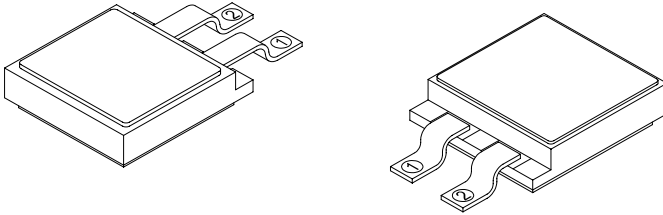
Phone: (562) 404-7855 * Fax: (562) 404-1773

ssdi@ssdi-power.com * www.ssdi-power.com

SSR3045CTG

DESIGNER'S DATA SHEET

CerPack



SSR3045CT

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

Package: G = CerPack

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

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	PER LEG	I_O	15	A
Peak Surge Current	8.3 ms pulse, half sinewave superimposed on I_O ; allow junction to reach equilibrium in between pulses; $T_a = 25^\circ\text{C}$	I_{FSM}	250	A
Peak Reverse Energy	$L = 260 \mu\text{H}$	E_R	0.5	mJ
Operating & Storage Temperature		T_{OP} & T_{STG}	-55 to +150	$^\circ\text{C}$
Maximum Thermal Resistance	(Junction to Case)	$R_{\theta JC}$	2.25	$^\circ\text{C/W}$

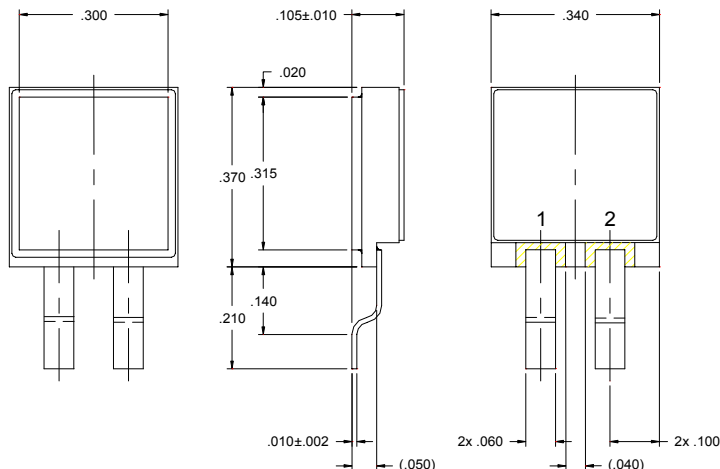
PACKAGE OUTLINE: CERPACK

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



Solid State Devices, Inc.

14830 Valley View Blvd * La Mirada, Ca 90638

Phone: (562) 404-7855 * Fax: (562) 404-1773

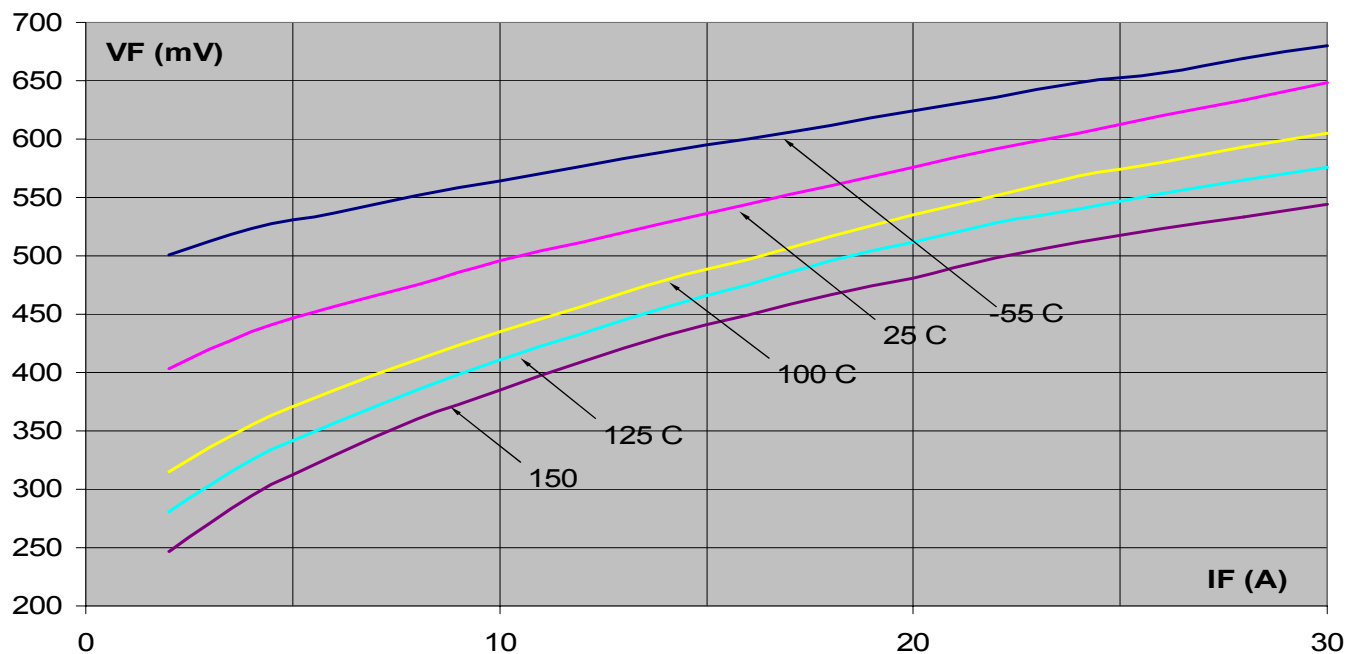
ssdi@ssdi-power.com * www.ssdi-power.com

SSR3045CTG

Electrical Characteristics ^{1/} , per leg		Symbol	Min	Typ	Max	Units
Instantaneous Forward Voltage Drop	$I_F = 1\text{ A}$	V_{F1}		430	—	mV
	$I_F = 5\text{ A}$	V_{F2}	—	520	600	
	$I_F = 10\text{ A}$	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



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