



Solid State Devices, Inc.

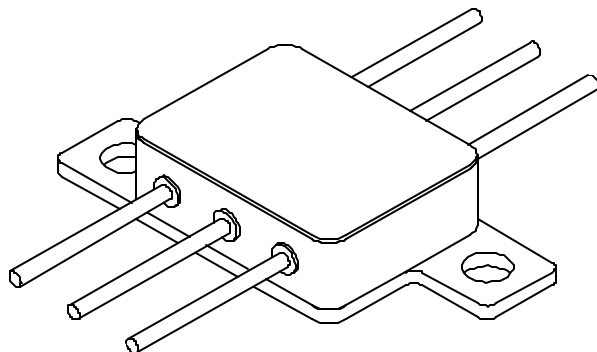
14701 Firestone Blvd * La Mirada, CA 90638

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

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

DESIGNER'S DATA SHEET ^{1/}

6 Pin TO-259



SDR623CT/CA thru SDR626CT/CA

40A 35nsec 300-600 V Common Anode & Common Cathode Hyper Fast Centertap Rectifier

Features:

- Hyper Fast Recovery: 35nsec Maximum ^{3/}
- Isolated Low Profile Package
- Low Reverse Leakage Current
- Eutectic Die Attach Available
- Hermetically Sealed Package
- Dual Centertap: 1 Common Anode,
1 Common Cathode
- Optional Bent Leads Available
- TX, TXV, and S-Level Screening Available ^{2/}

Maximum Ratings ^{6/}		Symbol	Value	Units
Peak Repetitive Reverse Voltage	SDR623CT/CA	V _{RRM}	300	Volts
	SDR624CT/CA	V _{RWM}	400	
	SDR625CT/CA	V _R	500	
	SDR626CT/CA		600	
Average Rectified Forward Current (Resistive Load, 60 Hz Sine Wave, T _A = 25 °C)		Total I _O	80	Amps
Peak Surge Current ^{5/} (8.3 ms Pulse, Half Sine Wave, T _A = 25 °C)		I _{FSM}	200	Amps
Operating & Storage Temperature		T _{OP} & T _{STG}	-65 to +200	°C
Maximum Total Thermal Resistance		R _{θJC}	0.65	°C/W
Junction to Case ^{4/}			1.9	
Junction to Case ^{5/}				

Notes:

1/ For ordering information, Price, Operating Curves, and Availability- Contact Factory.

2/ Screened to MIL-PRF-19500.

3/ Recovery Conditions: $I_F = 0.5$ Amp, $I_R = 1.0$ Amp, rec. to 0.25 Amp.

4/ All Legs Tied Together.

5/ Each Leg.

6/ Ratings at 25°C (Unless Otherwise Specified).

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

DATA SHEET #: RH0231G

DOC



Solid State Devices, Inc.

14701 Firestone Blvd * La Mirada, CA 90638

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

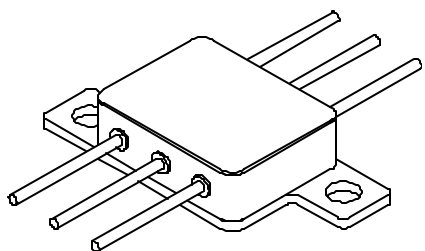
ssdi@ssdi-power.com * www.ssdi-power.com

SDR623CT/CA

thru

SDR626CT/CA

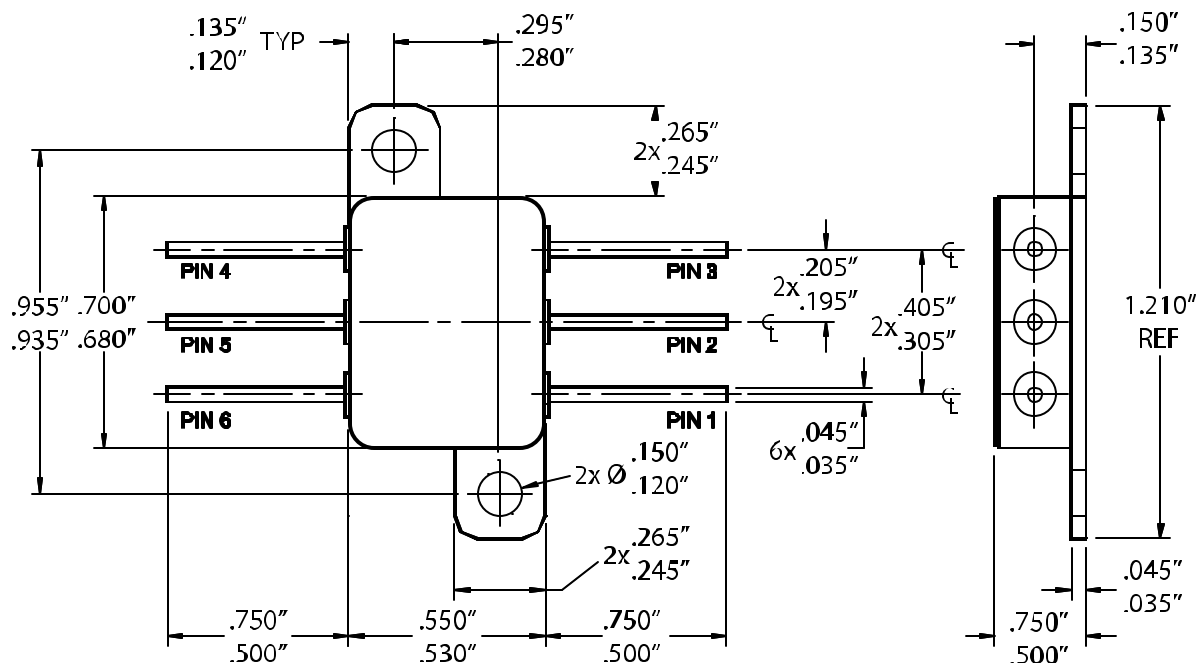
Electrical Characteristics		Symbol	Max	Units
Instantaneous Forward Voltage Drop ($I_F = 10\text{Adc}$, Pulse)	$T_A = 25^\circ\text{C}$	V_{F1}	1.45	V_{DC}
	$T_A = 25^\circ\text{C}$	V_{F2}	1.65	
Instantaneous Forward Voltage Drop ($I_F = 10\text{Adc}$, Pulse)	$T_A = 100^\circ\text{C}$	V_{F3}	1.35	V_{DC}
	$T_A = -55^\circ\text{C}$	V_{F4}	1.55	
Reverse Leakage Current (100% of rated V_R , Pulse)	$T_A = 25^\circ\text{C}$	I_{R1}	50	μA
	$T_A = 100^\circ\text{C}$	I_{R2}	5	mA
Reverse Recovery Time ($I_F = 0.5\text{A}$, $I_R = 1\text{A}$, $I_{RR} = 0.25\text{A}$, $T_A = 25^\circ\text{C}$)		t_{rr}	35	nsec
Junction Capacitance ($V_R = 10V_{DC}$, $T_A = 25^\circ\text{C}$, $f = 1\text{MHz}$)		C_J	150	pF



PIN ASSIGNMENT			
Configuration	Pin 1	Pin 2	Pin 3
Common Cathode	Anode 1	Cathode	Anode 2
Configuration	Pin 4	Pin 5	Pin 6
Common Anode	Cathode 1	Anode	Cathode 2

TO-259-6

Outline:



Tolerances

Unless Specified- .XX $\pm .020$ "

.XXX $\pm .010$ "

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

DATA SHEET #: RH0231G

DOC