Solid State Devices, Inc.
14701Firestone Blvd * La Mirada, CA 90638
Phone: (562) 404-7855 * Fax: (562) 404-1773
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SDR620CT/CAP6 THRU SDR622CT/CAP6

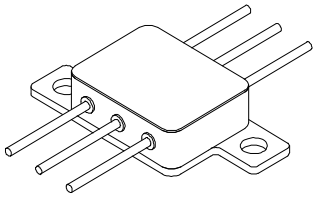
DESIGNER'S DATA SHEET

Features:

- Hyper Fast Recovery: 35nsec Maximum
- Isolated low profile package
- Ceramic Feed Thrus
- Eutectic Die Attach Available
- Hermetically Sealed
- Low Reverse Leakage
- TX, TXV, and Space Level Screening Available.

80 AMP
100-200 Volts
35nsec
COMMON ANODE & CATHODE
HYPERFAST CENTERTAP
RECTIFIER

6 PIN TO-259



Maximum Ratings		Symbol	Value	Units
Peak Repetitive Reverse and DC Blocking Voltage 3/	**SDR620CT/CAP6** **SDR621CT/CAP6** **SDR622CT/CAP6**	V_{RRM} V_{RWM} V_R	100 150 200	**Volts**
Average Rectified Forward Current (Resistive Load, 60 Hz Sine Wave, T_A = 25ºC)		**Io**	80	**Amps**
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, T_A = 25ºC) 1/		I_{FSM}	500	**Amps**
Operating & Storage Temperature		**Top & Tstg**	-65 to +200	**ºC**
Maximum Thermal Resistance Junction to Case, each individual diode Junction to Case, 2/		R_{qJL}	1.2 0.65	**ºC/W**

1/ Each pair of diodes
2/ All legs connected together
3/ 250V class available

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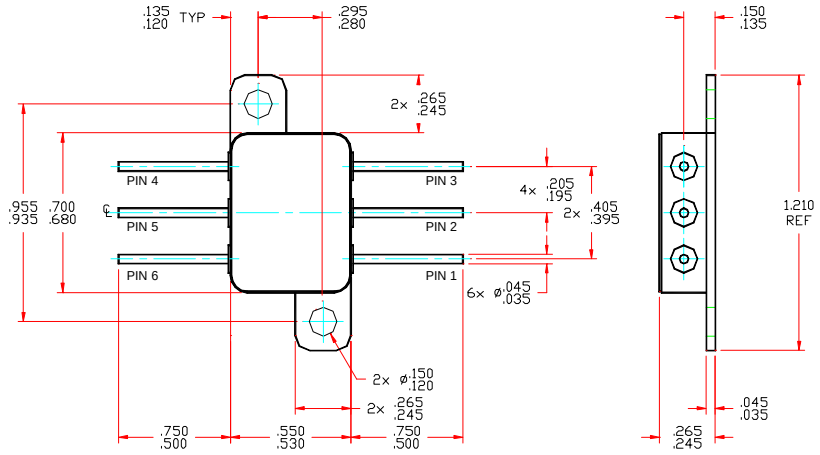
SDR620CT/CAP6 THRU SDR622CT/CAP6

Electrical Characteristics		Symbol	Min	Max	Units
Instantaneous Forward Voltage Drop (IF=10Adc, T_A = 25ºC, 300 µsec pulse) (IF=20Adc, T_A = 25ºC, 300 µsec pulse)		V_{F1}	—	1.0 1.2	**Volts**
Instantaneous Forward Voltage Drop (IF= 10Adc, T_A = 100ºC, 300 µsec pulse) (IF= 10Adc, T_A = -55ºC, 300 µsec pulse)		V_{F2}	—	0.9 1.15	**Volts**
Reverse Leakage Current (Rated V_R, T_A = 25ºC, 300 µsec pulse minimum)		I_{R1}	—	10	**mA**
Reverse Leakage Current (Rated V_R, T_A = 100ºC, 300 µsec pulse minimum)		I_{R2}	—	1	**mA**
Junction Capacitance (V_R = 10 Vdc, T_A = 25ºC, f = 1MHz)		C_J	—	225	**pF**
Reverse Recovery Time **(**I_F = 0.5A, I_R = 1A, I_{RR} = 0.25A, T_A = 25ºC **)**		t_{rr}	—	35	**nsec**

CASE OUTLINE: TO-259-6
PIN OUT:

COMMON ANODE
PIN 1: CATHODE
PIN 2: ANODE
PIN 3: CATHODE

COMMON CATHODE
PIN 4: ANODE
PIN 5: CATHODE
PIN 6: ANODE



NOTE: All specifications are subject to change without notification. SCD's for these devices should be reviewed by SSDI prior to release.	**DATA SHEET #: RH0015B**	**DOC**