



**Solid State Devices, Inc.**

14701 Firestone Blvd \* La Mirada, CA 90638

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

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**SDR620CT/CAP6  
THRU  
SDR622CT/CAP6**

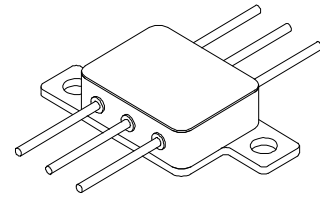
**DESIGNER'S DATA SHEET**

**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 <sup>3/</sup>	SDR620CT/CAP6	$V_{RRM}$	100	Volts
	SDR621CT/CAP6	$V_{RWM}$	150	
	SDR622CT/CAP6	$V_R$	200	
Average Rectified Forward Current (Resistive Load, 60 Hz Sine Wave, $T_A = 25^\circ\text{C}$ )		$I_o$	80	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, $T_A = 25^\circ\text{C}$ ) <sup>1/</sup>		$I_{FSM}$	500	Amps
Operating & Storage Temperature		Top & Tstg	-65 to +200	$^\circ\text{C}$
Maximum Thermal Resistance Junction to Case, each individual diode		$R_{qJL}$	1.2	$^\circ\text{C/W}$
Junction to Case, <sup>2/</sup>			0.65	

<sup>1/</sup> Each pair of diodes

<sup>2/</sup> All legs connected together

<sup>3/</sup> 250V class available

**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**



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 THRU  
 SDR622CT/CAP6**

Electrical Characteristics	Symbol	Min	Max	Units
<b>Instantaneous Forward Voltage Drop</b> (IF=10Adc, TA = 25°C, 300 μsec pulse) (IF=20Adc, TA = 25°C, 300 μsec pulse)	<b>V<sub>F1</sub></b>	—	1.0 1.2	<b>Volts</b>
<b>Instantaneous Forward Voltage Drop</b> (IF= 10Adc, TA = 100°C, 300 μsec pulse) (IF= 10Adc, TA = -55°C, 300 μsec pulse)	<b>V<sub>F2</sub></b>	—	0.9 1.15	<b>Volts</b>
<b>Reverse Leakage Current</b> (Rated V <sub>R</sub> , TA = 25°C, 300 μsec pulse minimum)	<b>I<sub>R1</sub></b>	—	10	<b>mA</b>
<b>Reverse Leakage Current</b> (Rated V <sub>R</sub> , TA = 100°C, 300 μsec pulse minimum)	<b>I<sub>R2</sub></b>	—	1	<b>mA</b>
<b>Junction Capacitance</b> (V <sub>R</sub> = 10 Vdc, TA = 25°C, f = 1MHz)	<b>C<sub>J</sub></b>	—	225	<b>pF</b>
<b>Reverse Recovery Time</b> (I <sub>F</sub> = 0.5A, I <sub>R</sub> = 1A, I <sub>RR</sub> = 0.25A, TA = 25°C )	<b>t<sub>rr</sub></b>	—	35	<b>nsec</b>

**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**

