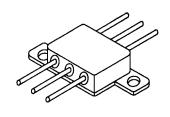
14849 Firestone Boulevard · La Mirada,CA 90638 Phone: (714) 670-SSDI (7734) · Fax: (714) 522-7424

SDR623CT/CAP6 thru SDR625CT/CAP6

40 AMP 300-500 VOLTS 35 nsec

COMMON ANODE & CATHODE HYPERFAST CENTERTAP RECTIFIER

6 PIN TO-259



Designer's Data Sheet

FEATURES:

- Hyperfast Recovery: 35 nsec Maximum
- Isolated low profile package Ceramic Feed Thrus
- **Eutectic Die Attach Available**
- Hermetically Sealed
- Low Reverse Leakage
- Dual Centertap: 1 Common Anode, 1 Common Cathode
- TX, TXV and Space Level Screening Available

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage, note 3 SDR623CT/CAP6 SDR624CT/CAP6 SDR625CT/CAP6	VRRM VRWM VR	300 400 500	Volts
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, TA=25°C)	lo	80	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, TA=25°C) note 1	IFSM	600	Amps
Operating and storage temperature	Top & Tstg	-65 to +200	.c
Maximum Thermal Resistance Junction to Case, each individual diode Junction to Case, note 2	ReJC	1.9 0.65	.C/M

Note 1 Each pair of diodes

Note 2 All legs connected together

Note 3 550V class available upon request

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

DATA SHEET #: RH0007 A

MED

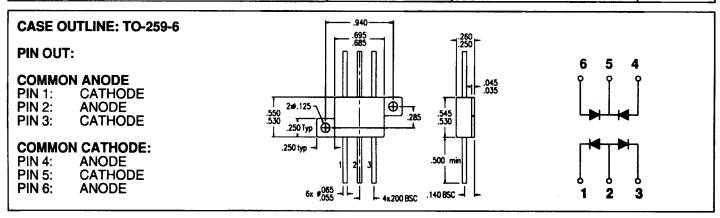
SDR623CT/CAP6 SDR625CT/CAP6

PRELIMINARY



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ELECTRICAL CHARACTERISTICS (Per Leg)				
CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT	
Instantaneous Forward Voltage Drop (IF = 10 Adc, Ta=25°C, 300μs Pulse) (IF = 20 Adc, Ta=25°C, 300μs Pulse)	VF	1.35 1.55	Vdc	
Instantaneous Forward Voltage Drop (IF= 10 Adc, Ta=100°C, 300μs Pulse) (IF= 10 Adc, Ta=-55°C, 300μs Pulse)	VF	1.25 1.45	Vdc	
Reverse Leakage Current (Rated VR, Ta=25°C, 300μs pulse minimum)	IR	50	μА	
Reverse Leakage Current (Rated VR, Ta=100°C, 300μs pulse minimum)	İR	5	mA	
Junction Capacitance (VR = 10 Vdc, Ta=25°C, f=1MHz)	CJ	150	pf	
Reverse Recovery Time (IF =500mA, IR = 1A, IRR=250mA, TA=25°C)	trr	35	nsec	



TYPICAL OPERATING CURVES

TA=25°C Unless otherwise specified

