

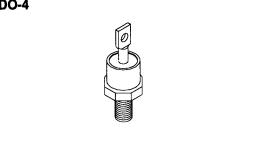
14849 Firestone Boulevard · La Mirada,CA 90638 Phone: (714) 670-SSDI (7734) · Fax: (714) 522-7424

SDR600 thru **SDR608**

15 AMP 50-800 VOLTS 45-60 nsec **ULTRA FAST**

RECTIFIER

DO-4



Designer's Data Sheet

FEATURES:

- Ultra Fast Recovery: 45-60 nsec Maximum
- PIV to 700 Volts
- Low Reverse Leakage Current
- Hermetically Sealed
- Single Chip Construction
- High Surge Current: 250 Amps
- Also available in 2 Pin TO-59 or TO-111
- Isolated Package Upon Request
- TX, TXV, and Space Level Screening Available

MAXIMUM RATINGS			
RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage SDR600		50 100	
SDR602 SDR603	VRRM	200 300	
SDR604 SDR605	VRWM	400 500	Volts
SDR606 SDR607 SDR608	VR	600 700 800	
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, TA=25°C)	lo	15	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, TA=25°C)	IFSM	250	Amps
Operating and storage temperature	Top & Tstg	-65 to +175	.c
Maximum Thermal Resistance Junction to Case	Rejc	2.5	.c/M

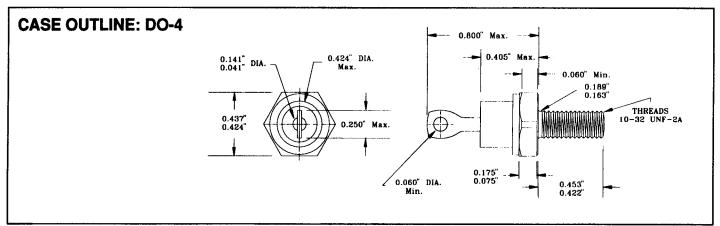
PRELIMINARY



SOLID STATE DEVICES, INC

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ELECTRICAL CHARACTERISTICS						
CHARACTERISTICS		SYMBOL	MAXIMUM	UNIT		
Instantaneous Forward Voltage Drop (IF = 15 Adc, Ta=25°C, 300μs Pulse)	SDR600-605 SDR606-608	VF	1.3 1.8	Vdc		
Instantaneous Forward Voltage Drop (IF = 15 Adc, TA=-55°C, 300μs Pulse)	SDR600-605 SDR606-608	VF	1. 4 5 1.95	Vdc		
Reverse Leakage Current (Rated VR, Ta=25°C, 300µs pulse minimum)		IR	50	μΑ		
Reverse Leakage Current (Rated VR, Ta=100°C, 300μs pulse minimum)		iR	10	mA		
Junction Capacitance (VR = 10 Vdc, TA=25°C, f= 1 MHz)		cı	150	pf		
Reverse Recovery Time (IF =500ma, IR = 1A, IRR=250mA, Ta=25°C)	SDR600-605 SDR606 SDR607-608	trr	45 50 60	nsec		



TYPICAL OPERATING CURVES TA=25°C Unless otherwise specified

