



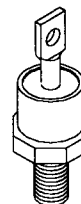
PRELIMINARY

SOLID STATE DEVICES, INC14849 Firestone Boulevard · La Mirada, CA 90638
Phone: (714) 670-SSDI (7734) · Fax: (714) 522-7424**SDR600
thru
SDR608****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

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

DO-4

**MAXIMUM RATINGS**

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage	VRRM	50	Volts
		100	
		200	
		300	
	VRWM	400	
		500	
	VR	600	
		700	
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, TA=25°C)	IO	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	RθJC	2.5	°C/W

NOTE: All specifications are subject to change without notification.
SSD's for these devices should be reviewed by SSDI prior to release.**DATA SHEET #: RU0019 A****RMD**

SDR600 thru SDR608

PRELIMINARY



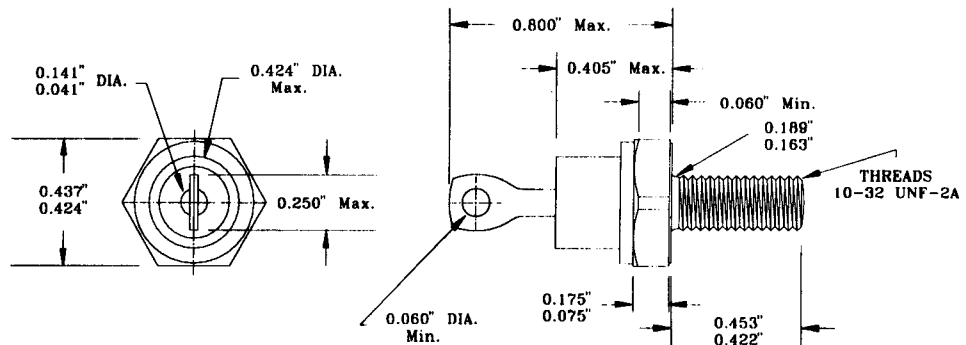
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ELECTRICAL CHARACTERISTICS

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	1.45 1.95	Vdc
Reverse Leakage Current (Rated VR, TA=25°C, 300μs pulse minimum)		IR	50	μA
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)		CJ	150	pf
Reverse Recovery Time (IF = 500ma, IR = 1A, IRR=250mA, TA=25°C)	SDR600-605 SDR606 SDR607-608	trr	45 50 60	nsec

CASE OUTLINE: DO-4



TYPICAL OPERATING CURVES

TA=25°C Unless otherwise specified

