



PRELIMINARY

SOLID STATE DEVICES, INC

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

JUL 13 1991
1N3879
thru
1N3883

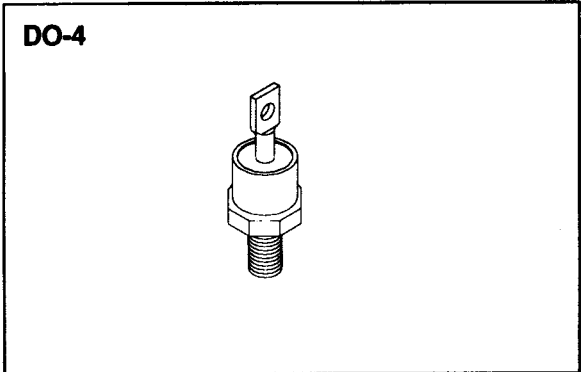
Designer's Data Sheet

FEATURES:

- Fast Recovery: 120 nsec maximum
- PIV to 400 Volts
- Higher Voltage devices available
- Low Reverse Leakage Current
- Hermetically Sealed
- Single Chip Construction
- High Surge Rating
- Low Thermal Resistance
- For Reverse Polarity add suffix "R"

- TX, TXV, and Space Level Screening available

**6 AMPS
50-400 VOLTS
120 nsec
FAST RECOVERY
RECTIFIER**



MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage	1N3879	50	Volts
	1N3880	100	
	1N3881	200	
	1N3882	300	
	1N3883	400	
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, TA=25°C)	IO	6	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, TA=25°C)	IFSM	150	Amps
Operating and storage temperature	Top & Tstg	-65 to +150	°C
Maximum Thermal Resistance Junction to Case	RθJC	4	°C/W

**1N3879
thru
1N3883**

PRELIMINARY



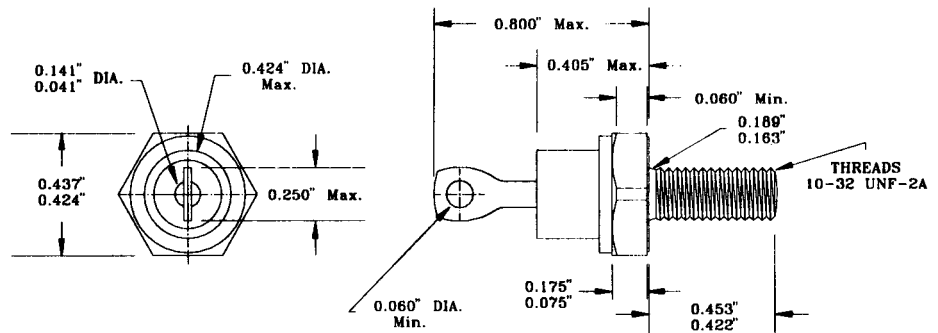
SOLID STATE DEVICES, INC

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

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
Instantaneous Forward Voltage Drop (IF = 6 Adc, TA=25°C, 300µs Pulse)	VF	1.1	Vdc
Instantaneous Forward Voltage Drop (IF = 6 Adc, TA= - 55°C, 300µs Pulse)	VF	1.25	Vdc
Reverse Leakage Current (Rated VR, TA=25°C, 300µs pulse minimum)	IR	10	µA
Reverse Leakage Current (Rated VR, TA=100°C, 300µs pulse minimum)	IR	1	mA
Junction Capacitance (VR = 10 Vdc, TA=25°C, f= 1 MHz)	CJ	300	pf
Reverse Recovery Time (IF=500mA, IR=1 A, IRR=250mA, TA=25°C)	trr	120	nsec

CASE OUTLINE: DO-4



TYPICAL OPERATING CURVES

TA=25°C Unless otherwise specified

