



PRELIMINARY

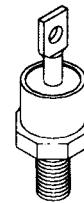
SOLID STATE DEVICES, INC14849 Firestone Boulevard · La Mirada, CA 90638
Phone: (714) 670-SSDI (7734) · Fax: (714) 522-7424**Designer's Data Sheet****FEATURES:**

- 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

**1N3879
thru
1N3883****6 AMPS
50-400 VOLTS
120 nsec
FAST RECOVERY
RECTIFIER**

DO-4

**MAXIMUM RATINGS**

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage 1N3879 1N3880 1N3881 1N3882 1N3883	VRRM VRWM VR	50 100 200 300 400	Volts
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

NOTE: All specifications are subject to change without notification.
SCD's for these devices should be reviewed by SSDI prior to release.**DATA SHEET#: RF0003 A****RMD**

**1N3879
thru
1N3883**

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SSDI

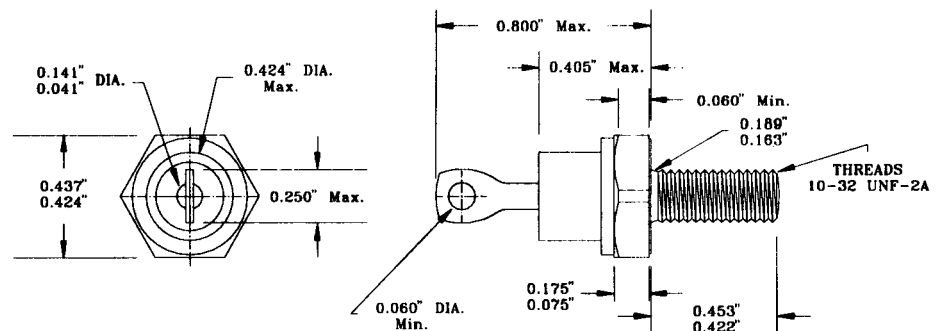
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ELECTRICAL CHARACTERISTICS

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

