



PRELIMINARY

# SOLID STATE DEVICES, INC

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

## 1N1124A and 1N1128A

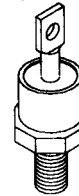
### Designer's Data Sheet

#### FEATURES:

- Fast Recovery: 5  $\mu$ sec maximum
- PIV to 600 Volts
- Low Reverse Leakage Current
- Hermetically Sealed
- Single Chip Construction
- High Surge Rating
- Low Thermal Resistance
- I.A.W. MIL-S-19500/104
- For Reverse Polarity add suffix "R"
- Higher Voltage and Current devices available
- TX, TXV, and Space Level Screening available

### 3 AMPS 200-600 VOLTS 5 $\mu$ sec STANDARD RECOVERY RECTIFIER

DO-4



#### MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage	1N1124A	200	Volts
	1N1125A	300	
	1N1126A	400	
	1N1127A	500	
	1N1128A	600	
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, TA=25°C)	IO	3	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, TA=25°C)	IFSM	50	Amps
Operating and storage temperature	Top & Tstg	-65 to +150	°C
Maximum Thermal Resistance Junction to Case	R $\theta$ JC	3	°C/W

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

DATA SHEET#: R00009 A

RMD

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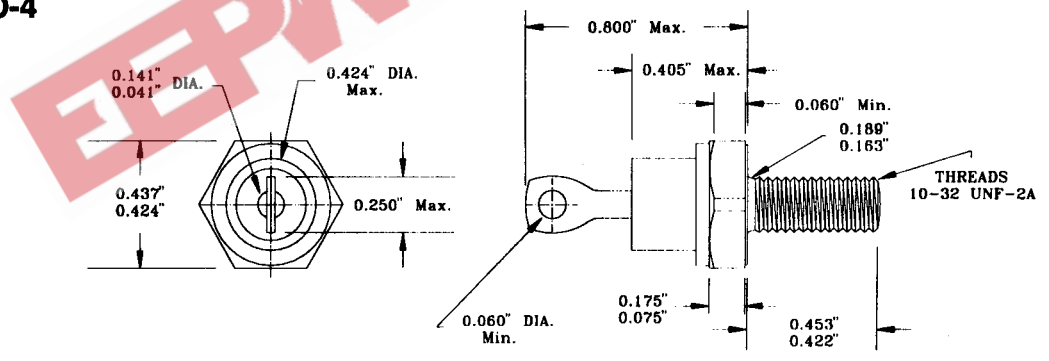
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## ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
Instantaneous Forward Voltage Drop (IF = 3 Adc, TA=25°C, 300µs Pulse)	VF	1.1	Vdc
Instantaneous Forward Voltage Drop (IF = 3 Adc, TA= - 55°C, 300µs Pulse)	VF	1.3	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	500	µA
Junction Capacitance (VR = 10 Vdc, TA=25°C, f= 1 MHz)	CJ	200	pf
Reverse Recovery Time (IF=500mA, IR=1 A, IRR=250mA, TA=25°C)	t <sub>rr</sub>	5	µsec

## CASE OUTLINE: DO-4



## TYPICAL OPERATING CURVES

TA=25°C Unless otherwise specified

