

1N1124A THRU 1N1128A 3 AMP STANDARD RECOVERY RECTIFIER 200-600 VOLTS

T-01-15
SSDI

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CASE STYLE DO-4



FEATURES

- PIV TO 600 VOLTS
- HERMETICALLY SEALED
- POPULAR DO-4 OUTLINE
- TRANSIENT VOLTAGE RATINGS 200 VOLTS ABOVE PIV RATINGS
- I.A.W. MIL-S-19500/104
- FOR REVERSE POLARITY ADD "R" TO PART NUMBER

MAXIMUM RATINGS

Rating		Symbol	Value	Unit
Peak Repetitive Reverse Voltage and DC Blocking Voltage	1N1124A	$V_{RM (rep)}$ V_R	200	Volts
	1N1125A		300	
	1N1126A		400	
	1N1127A		500	
	1N1128A		600	
RMS Reverse Voltage	1N1124A	V_r	140	Volts
	1N1125A		210	
	1N1126A		280	
	1N1127A		350	
	1N1128A		420	
Half Wave Rectified Forward Current, Averaged Over Full Cycle (Resistive Load, 60 Hz, Sine Wave, $T_C = 55^\circ\text{C}$)		I_0	3.3	Amps
Peak Repetitive Forward Current ($T_C = 55^\circ\text{C}$, 8.3 ms Pulse, Allow Junction to Reach Equilibrium Between Pulses)		$I_{FM (rep)}$	10	Amps
Peak Surge Current ($T_C = 55^\circ\text{C}$, Superimposed on Rated Current at Rated Voltage, 8.3 ms Pulse)		$I_{FM (surge)}$	50	Amps
Operating and Storage Temperature		T_J, T_{stg}	-65 to +175	$^\circ\text{C}$

THERMAL CHARACTERISTICS

Characteristics	Symbol	Max	Unit
Thermal Resistance, Junction to Case	$R_{\theta JC}$	3	$^\circ\text{C/W}$

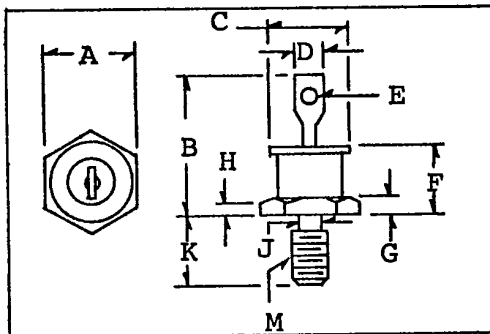
ELECTRICAL CHARACTERISTICS

Characteristics	Symbol	Value	Unit
Max Full Cycle Forward Voltage Drop, Averaged Over Full Cycle (I_O (Max), 60 Hz. Square Wave, $T_C = 55^\circ\text{C}$)	$V_{F(AV)}$.6	Vdc
Max Instantaneous Forward Drop ($I_F = 3$ Adc, $T_C = 25^\circ\text{C}$, 300 μs Pulse) ($I_F =$ Adc, $T_C = 150^\circ$, 300 μs Pulse)	V_F	1.1	Vdc
Max Full Cycle Reverse Leakage Current, Averaged Over Full Cycle (Rated V_R , 60Hz, Square Wave, $T_C = 100^\circ\text{C}$)	$I_{R(AV)}$.5	mAdc
Max Reverse Leakage Current (Rated V_R , $T_C = 25^\circ\text{C}$)	I_R	.01	mAdc
Max Junction Capacitance ($V_R =$ V, $T_C = 25^\circ\text{C}$)	C_J		pf

REVERSE RECOVERY CHARACTERISTICS

Characteristics	Symbol	Min	Typ	Max	Unit
Reverse Recovery Time ($I_F = 500\text{ma}$, $I_R = 1\text{A}$, $I_{RR} = 250\text{ma}$) ($I_F = 1.0$ Amp to $V_R = 30$ Vdc.)	t_{rr}	---	2500	5000	ns

PHYSICAL DIMENSIONS



KEY TO DIMENSIONS:

- (Inches)
- A = .424 - .437
 - B = .800 Max.
 - C = .424 Max.
 - D = .250 Max.
 - E = .060 Min.
 - F = .405 Max.
 - G = .075 - .175
 - H = .060 Min.
 - J = .163 - .189
 - K = .422 - .453
 - M = 10-32 UNF-2A
 - N =

TYPICAL OPERATING CURVES

