

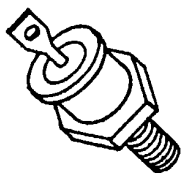
T-01-15



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

14830 Valley View Avenue  
La Mirada, California 90638  
(213) 921-9660  
TWX 910-583-4807  
FAX 213-921-2396

### 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	$V_{RM} (rep)$		Volts
	1N1125A	$V_R$	200	
	1N1126A		300	
	1N1127A		400	
	1N1128A		500	
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, 60Hz, Sine Wave, $T_C = 55^\circ C$ )		$I_o$	3.3	Amps
Peak Repetitive Forward Current ( $T_C = 55^\circ C$ , 8.3 ms Pulse, Allow Junction to Reach Equilibrium Between Pulses)		$I_{FM} (rep)$	10	Amps
Peak Surge Current ( $T_C = 55^\circ C$ , 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	$^\circ C$

### THERMAL CHARACTERISTICS

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

NOTE: All specifications subject to change without notice.

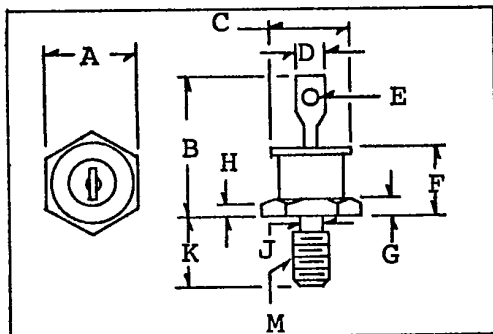
# ELECTRICAL CHARACTERISTICS

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 $\mu\text{s}$ Pulse) ( $I_F =$ Adc, $T_C = 150^\circ\text{C}$ , 300 $\mu\text{s}$ 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

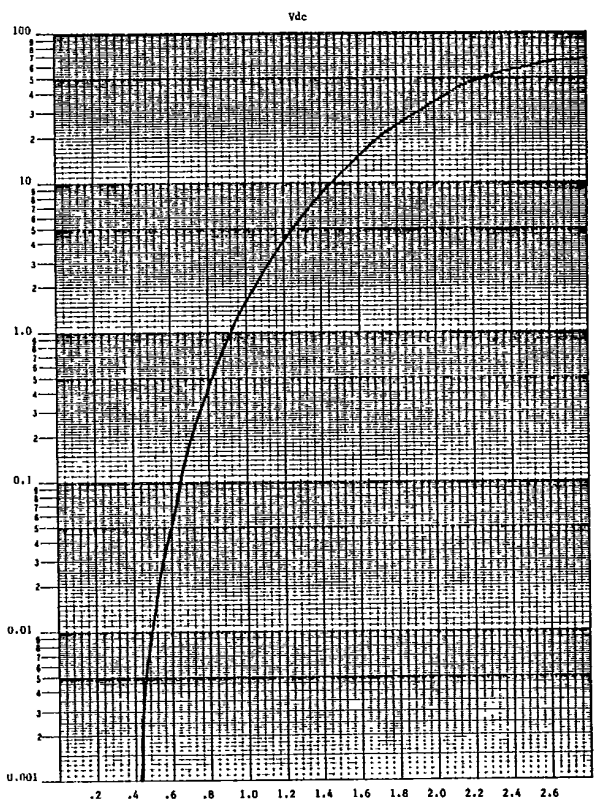


### KEY TO DIMENSIONS:

(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



**SSDI** SOLID STATE DEVICES, INC.