

1N1124A THRU 1N1128A

3 AMP

STANDARD RECOVERY RECTIFIER

200-600 VOLTS

T-01-15
SSDII

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	
			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, 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.

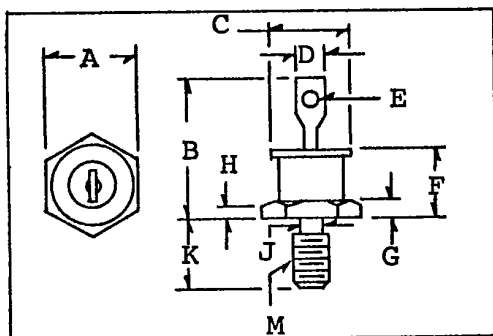
ELECTRICAL CHARACTERISTICS

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

REVERSE RECOVERY CHARACTERISTICS

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

PHYSICAL DIMENSIONS

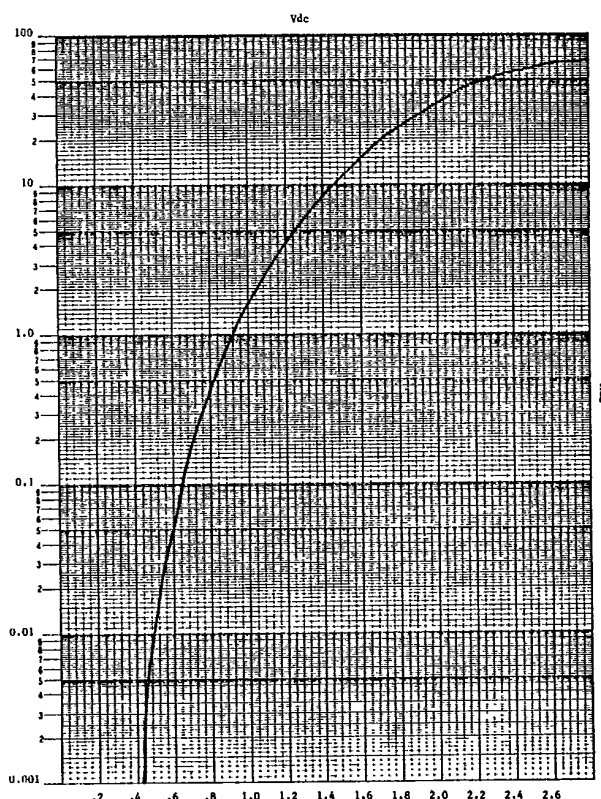


KEY TO DIMENSIONS:

(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



SSD1 SOLID STATE DEVICES, INC.