

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number: 1N1124R
Manufacturer: Microchip Technology
Package: DO-203AA, DO-4, Stud
Availability: Please confirm with sales

Product Page:

<https://antrexco.com/product/details/microchip-technology/1n1124r.html>

Request a Quote:

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Quality & Trust

New & Original Components

Supplier verification and packaging condition review

CoC / RoHS / REACH documents available on request

Secure sourcing support for OEM / EMS projects

Note:

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.

HIGH RELIABILITY POWER RECTIFIER

Qualified per MIL-PRF-19500/260

- Glass Passivated Die • Glass to Metal Seal Construction
- 25 Amps Surge Rating • VRRM to 1000 Volts

DEVICES

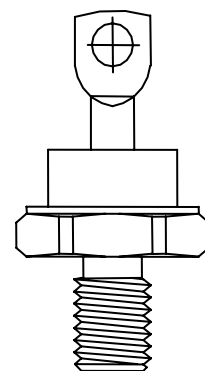
1N1124A	1N1124RA	1N3649	1N3649R
1N1126A	1N1126RA	1N3650	1N3650R
1N1128A	1N1128RA		

LEVELS

JAN

ABSOLUTE MAXIMUM RATINGS ($T_C = +25^\circ\text{C}$ unless otherwise noted)

Parameters / Test Conditions	Symbol	Value	Unit
Peak Repetitive Reverse Voltage 1N1124A 1N1124RA 1N1126A 1N1126RA 1N1128A 1N1128RA 1N3649 1N3649R 1N3650 1N3650R	V_{RWM}	200 400 600 800 1000	V
Average Forward Current, $T_C = 150^\circ$	I_F	3.3	A
Peak Surge Forward Current @ $t_p = 8.3\text{ms}$, half sinewave, $T_C = 150^\circ\text{C}$, $T = 1/120\text{s}$	I_{FSM}	25	A
Thermal Resistance, Junction to Case	$R_{\theta jc}$	2.0	$^\circ\text{C/W}$
Operating Case Temperature Range	T_C	-65°C to 150°C	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-65°C to 200°C	$^\circ\text{C}$



DO-203AA(DO-4)

ELECTRICAL CHARACTERISTICS ($T_A = +25^\circ\text{C}$, unless otherwise noted)

Parameters / Test Conditions	Symbol	Min.	Max.	Unit
Forward Voltage $I_F = 10\text{A}$, $T_j = 25^\circ\text{C}^*$	V_F		2.2	V
Reverse Current $V_R = 200$, $T_j = 25^\circ\text{C}$ 1N1124A 1N1124RA $V_R = 400$, $T_j = 25^\circ\text{C}$ 1N1126A 1N1126RA $V_R = 600$, $T_j = 25^\circ\text{C}$ 1N1128A 1N1128RA $V_R = 800$, $T_j = 25^\circ\text{C}$ 1N3649 1N3649R $V_R = 1000$, $T_j = 25^\circ\text{C}$ 1N3650 1N3650R	I_R		5	μA
Reverse Current $V_R = 200$, $T_j = 150^\circ\text{C}$ 1N1124A 1N1124RA $V_R = 400$, $T_j = 150^\circ\text{C}$ 1N1126A 1N1126RA $V_R = 600$, $T_j = 150^\circ\text{C}$ 1N1128A 1N1128RA $V_R = 800$, $T_j = 150^\circ\text{C}$ 1N3649 1N3649R $V_R = 1000$, $T_j = 150^\circ\text{C}$ 1N3650 1N3650R	I_R		200	μA

* Pulse test: Pulse width 300 μs , Duty cycle 2%

Note:

HIGH RELIABILITY POWER RECTIFIER

GRAPHS

FIGURE 1
TYPICAL FORWARD CHARACTERISTICS

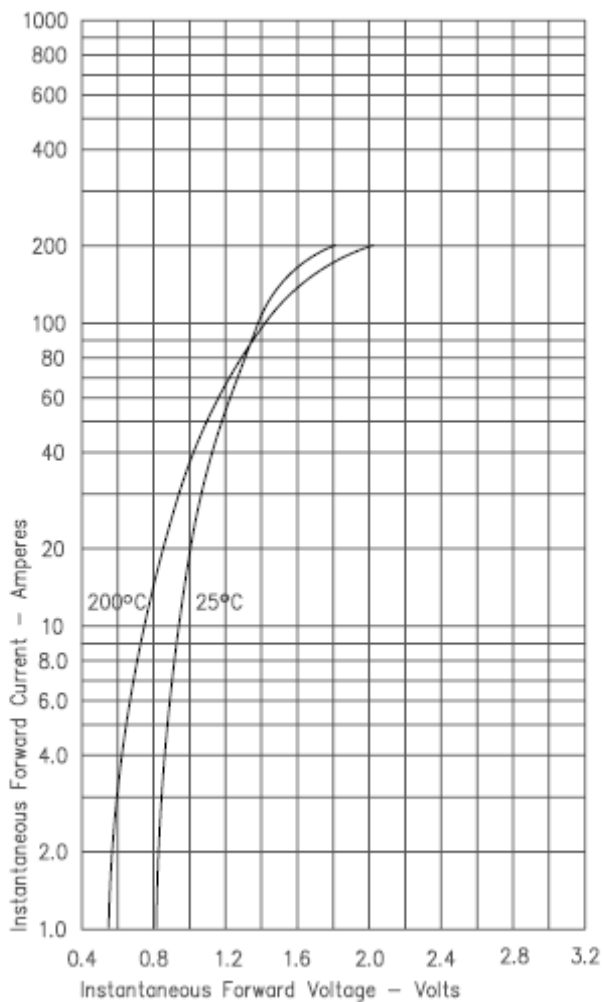
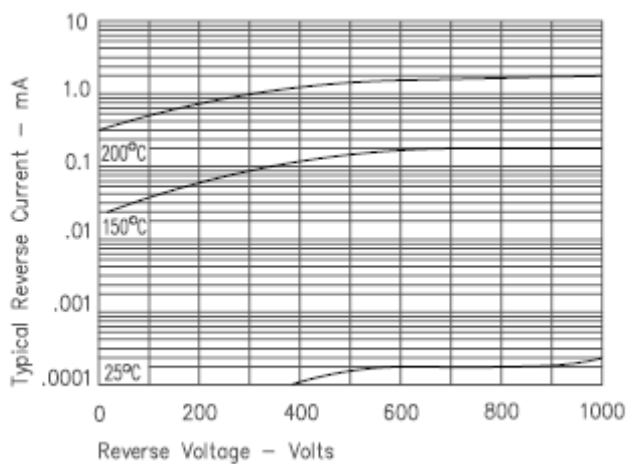
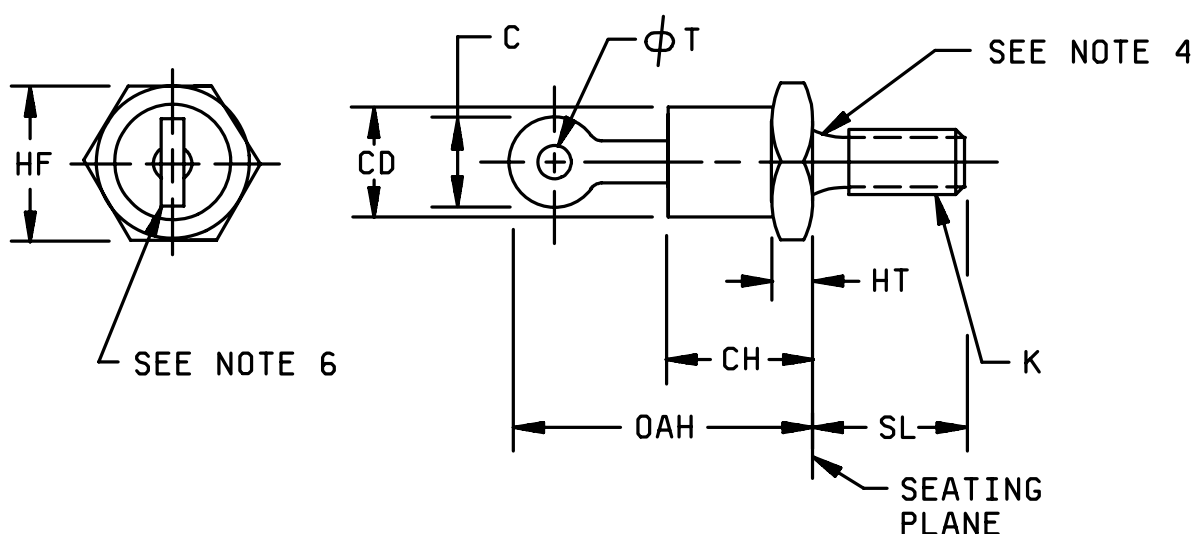


FIGURE 2
TYPICAL REVERSE CHARACTERISTICS



HIGH RELIABILITY POWER RECTIFIER

PACKAGE DIMENSIONS



NOTES:

- Dimensions are in inches.
- Millimeters are given for general information only.
- Units must not be damaged by torque of 15 inch-pounds applied to 10-32NF-2B nut assembled on thread
- Diameter of unthreaded portion .189 inch (4.80 mm) max and .163 inch (4.14 mm) min.
- Complete threads to extend to within 2.5 threads of seating plane.
- Angular orientation of this terminal is undefined.
- Max pitch diameter of plated threads shall be basic pitch diameter .169 inch (4.31 mm) reference FED-STD-H28 (Screw Thread Standards for Federal Services.)
- The A.S.A. thread reference is 10-32UNF2A.
- Terminal shape is unrestricted.
- Reversed (anode to stud) units shall be marked with an R following the last digit in the type number
- In accordance with ASME Y14.5M, diameters are equivalent to ϕx symbology.

Ltr	Dimensions				Notes
	Inches		Millimeters		
	Min	Max	Min	Max	
CH		.405		10.29	
CD		.424		10.77	
HF	.424	.437	10.77	11.10	
HT	.075	.175	1.90	4.44	
OAH		.800		20.32	
C		.250		6.35	9
φT	.060		1.52		
SL	.422	.453	10.72	11.51	
K					3,5,7

Physical dimensions (DO-203AA, formerly DO-4)

1N1202A, 1N1204A, 1N1206A, 1N3671A, 1N3673A and AR versions, and 1N1124A, 1N1126A, 1N1128A, and RA versions 1N3649, 1N3650, and R versions.