

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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HIGH RELIABILITY POWER RECTIFIER
Qualified per MIL-PRF-19500/260

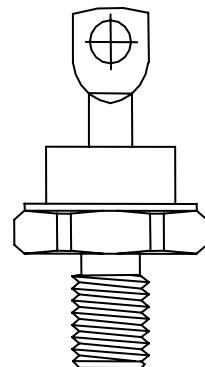
- Glass Passivated Die
- Glass to Metal Seal Construction
- 25 Amps Surge Rating
- VRRM to 1000 Volts

DEVICES

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

LEVELS
JAN
ABSOLUTE MAXIMUM RATINGS (T_C = +25°C unless otherwise noted)

Parameters / Test Conditions	Symbol	Value	Unit
Peak Repetitive Reverse Voltage			
1N1124A		200	
1N1126A		400	
1N1128A		600	
1N3649		800	
1N3650		1000	
	V _{RWM}		V
Average Forward Current, T _C = 150°	I _F	3.3	A
Peak Surge Forward Current @ t _p = 8.3ms, half sinewave, T _C = 150°C, T = 1/120s	I _{FSM}	25	A
Thermal Resistance, Junction to Case	R _{θjc}	2.0	°C/W
Operating Case Temperature Range	T _C	-65°C to 150°C	°C
Storage Temperature Range	T _{stg}	-65°C to 200°C	°C


DO-203AA(DO-4)
ELECTRICAL CHARACTERISTICS (T_A = +25°C, unless otherwise noted)

Parameters / Test Conditions	Symbol	Min.	Max.	Unit
Forward Voltage I _F = 10A, T _j = 25°C*	V _F		2.2	V
Reverse Current V _R = 200, T _j = 25°C				
V _R = 400, T _j = 25°C	I _R		5	μA
V _R = 600, T _j = 25°C				
V _R = 800, T _j = 25°C				
V _R = 1000, T _j = 25°C				
Reverse Current V _R = 200, T _j = 150°C	I _R		200	μA
V _R = 400, T _j = 150°C				
V _R = 600, T _j = 150°C				
V _R = 800, T _j = 150°C				
V _R = 1000, T _j = 150°C				

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

Note:

HIGH RELIABILITY POWER RECTIFIER

▶ GRAPHS

FIGURE 1
TYPICAL FORWARD CHARACTERISTICS

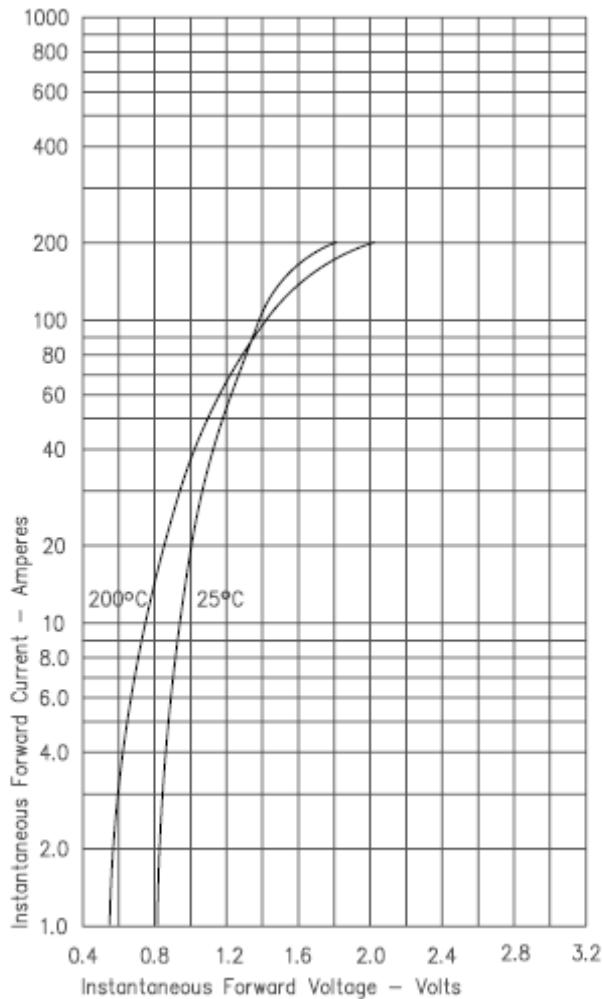
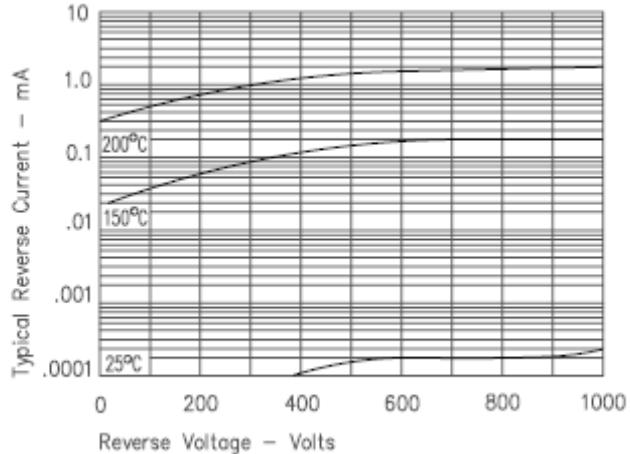
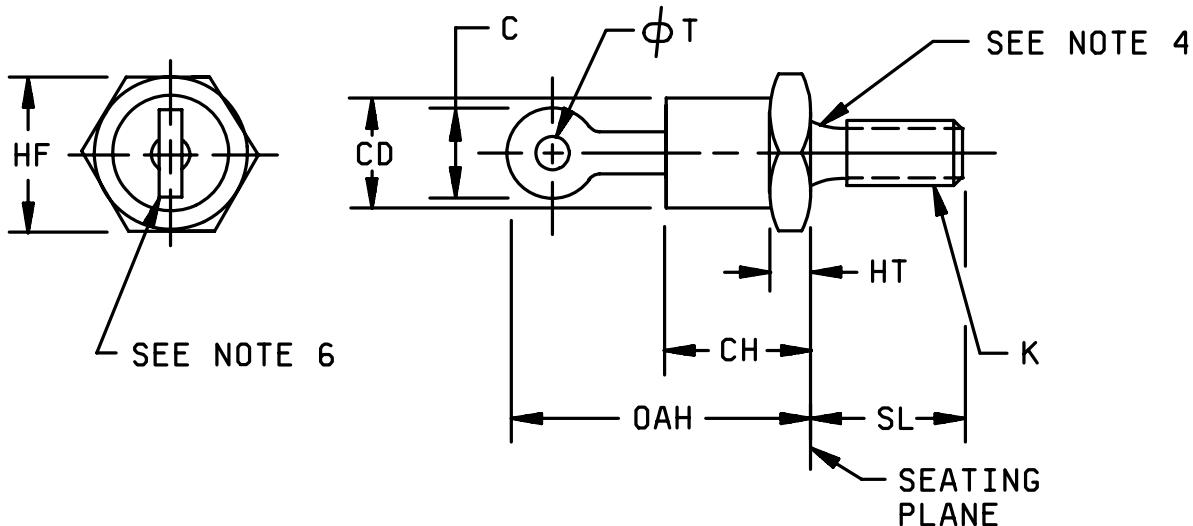


FIGURE 2
TYPICAL REVERSE CHARACTERISTICS



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 ϕ 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	
ϕ T	.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.