

COMPUTER DIODE

General Purpose
Switching

JAN & JANTX 1N3064
1N4454; JAN, JANTX & JANTXV 1N4454
JAN, JANTX & JANTXV 1N4454-1
1N4532; JAN, JANTX & JANTXV 1N4532

ABSOLUTE MAXIMUM RATINGS, AT 25°C

Reverse Breakdown Voltage	75V
Peak Working Voltage	50V
Average Output Current, 1N3064	75mA
1N4454-1	200mA
1N4532	125mA
Surge Current, 1sec 1N3064	0.5A
1N4454-1	1A
1N4532	0.5A
Operating Temperature Range	-65°C to +175°C
Storage Temperature Range	-65°C to +200°C

FEATURES

- Metallurgical Bond
- Qualified to MIL-S-19500/144
- Planar Passivated Chip
- DO-7, DO-34 or DO-35 Package

DESCRIPTION

Available in DO-7, DO-34 or DO-35 packages. Microsemi offers high temperature metallurgical bond, making these devices useful in high reliability applications.

ELECTRICAL SPECIFICATIONS (at 25°C unless noted)

Type	Reverse Current @ 25°C	Reverse Current @ 150°C	Reverse Breakdown Voltage @ -65°C	Reverse Recovery Time	Capacitance	Forward Voltage	Forward Recovery Voltage	Forward Recovery Time
1N3064 1N4454 1N4454-1 1N4532	0.1µAdc @ V _R = 50V	100µAdc @ V _R = 50V	75Vdc @ I _R = 5µAdc	4ns @ I _F = I _R = 10mAdc R _L = 100Ω c ≤ 3pF	2pF @ V _R = 0Vdc f = 1MHz V _{sig} = 50mV (pk to pk)	1.0Vdc @ I _F = 10mAdc	5.0V (pk) @ I _F = 100mAdc t _r ≤ 0.4ns	30ns I _F = 100mAdc t _r ≤ 0.4ns

MECHANICAL SPECIFICATIONS

J & JTX 1N3064
J, JTX & JTXV 1N4454 & 1N4454-1
J, JTX & JTXV 1N4532

A technical drawing of a diode package. It shows a cylindrical body with two leads extending from opposite ends. Dimension A is the height of the body. Dimension B is the length of the body. Dimension C is the length of one lead. Dimension D is the diameter of the body.

J & JTX 1N3064

	INCHES	MILLIMETERS
A	.078-.107	1.98-2.72
B	.195-.300	4.96-7.62
C	1.0 MIN.-1.5 MAX.	24.0 MIN.-38.1 MAX.
D	.018-.022	.46-.56

J, JTX & JTXV 1N4532

	INCHES	MILLIMETERS
A	.050-.065	1.27-1.65
B	.080-.120	2.03-3.05
C	1.0 MIN.-1.5 MAX.	24.0 MIN.-38.1 MAX.
D	.018-.022	.46-.56

J, JTX & JTXV 1N4454-1

	INCHES	MILLIMETERS
A	.056-.075	1.42-1.91
B	.140-.180	3.55-4.57
C	1.0 MIN.-1.5 MAX.	24.0 MIN.-38.1 MAX.
D	.018-.022	.46-.56

DO-34
1N4532

A technical drawing of a DO-34 package. It shows a cylindrical body with two leads extending from opposite ends. The package is shown in a side view, highlighting its compact, cylindrical shape.

DO-35
1N4454

Microsemi Corp.
Watertown
The diode experts