

COMPUTER DIODE

General Purpose
Switching

1N914; JAN, JANTX 1N914
1N4148; JAN, JANTX, JANTXV 1N4148
JAN, JANTX, JANTXV 1N4148-1
1N4531; JAN, JANTX, JANTXV 1N4531

FEATURES

- Metallurgical Bond
- Qualified to MIL-S-19500/116
- Planar Passivated Chip
- DO-34 or DO-35 Package
- Non-JAN Available

DESCRIPTION

This series is very popular for general purpose switching applications in electronic equipment.

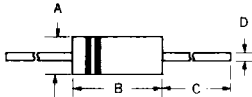
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ABSOLUTE MAXIMUM RATINGS, AT 25°C

Reverse Breakdown Voltage	100V
Peak Working Voltage	75V
Average Output Current, 1N914	75mAdc
1N4148	200mAdc
1N4148-1	200mAdc
1N4531	125mAdc
Surge Current, 8.3ms	500mA
Operating Temperature Range	-65°C to +175°C
Storage Temperature Range	-65°C to +200°C

MECHANICAL SPECIFICATIONS


J, JTX 1N914
J, JTX, JTXV 1N4148
J, JTX, JTXV 1N4148-1
J, JTX, JTXV 1N4531



J, JTX & JTXV 1N4531		J, JTX 1N914			
	INCHES	MILLIMETERS			
A	.050 - .065	1.27 - 1.65	A	.058 - .107	1.42 - 2.72
B	.080 - .120	2.03 - 3.05	B	.140 - .300	3.56 - 7.62
C	1.0 MIN - 1.5 MAX	25.4 MIN - 38.1 MAX	C	1.0 MIN - 1.5 MAX	25.4 MIN - 38.1 MAX
D	.018 - .022	46 - 56	D	.018 - .022	46 - 56

J, JTX, JTXV 1N4148 and 1N4148-1		
	INCHES	MILLIMETERS
A	.056 - .075	1.42 - 1.91
B	.140 - .180	3.56 - 4.57
C	1.0 MIN - 1.5 MAX	25.4 MIN - 38.1 MAX
D	.018 - .022	46 - 56

<p>DO-34 1N4531</p>	<p>DO-35 1N914 1N4148</p>
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ELECTRICAL SPECIFICATIONS (at 25°C unless noted)

Reverse Current @ 25°C	Reverse Current @ 25°C	Peak Reverse Current @ 25°C	Reverse Current @ 150°C	Reverse Current @ 150°C
25nAdc @ $V_R = 20Vdc$	0.5 μ Adc @ $V_R = 75Vdc$	100 μ A (pk) @ $V_R = 100V$ (pk)	50 μ Adc @ $V_R = 20Vdc$	100 μ Adc @ $V_R = 75Vdc$

Forward Voltage	Forward Recovery Voltage	Forward Recovery Time	Reverse Recovery Time	Capacitance
1.0Vdc @ $I_F = 10mA$	5.0V (pk) @ $I_F = 50mA$	20ns @ $I_F = 50mA$	5ns @ $I_F = I_R = 10mA$ $R_L = 100$ ohms	4.0 pF @ $V_R = 0V, f = 1$ MHz $V_{sig} = 50mV$ (pk-pk) 2.8 pF @ $V_R = 1.5V, f = 1$ MHz $V_{sig} = 50mV$ (pk-pk)

