COMPUTER DIODE
200mA
Low Power, Switching

1N3600; JAN, JANTX & JANTXV 1N3600
1N4150; JAN, JANTX & JANTXV 1N4150
JAN, JANTX & JANTXV 1N4150-1

FEATURES
- Metallurgical Bond
- Qualified to MIL-S-19500/231
- Planar Passivated Chip
- DO-7 or DO-35 Package
- Non-JAN Available

DESCRIPTION
This series of switching diodes is useful in many computer switching applications, for both military and commercial systems.

5

ABSOLUTE MAXIMUM RATINGS, AT 25°C
Reverse Breakdown Voltage 75V
Peak Working Voltage 50V
Average Output Current 200mA
Surge Current (1sec) 0.5A
      (1μsec) 4.0A
Operating Temperature Range .... —65°C to +175°C
Storage Temperature Range (1N4150) .... 65°C to +200°C
      (1N3600) .... —65°C to +175°C

MECHANICAL SPECIFICATIONS

J, JTX & JTXV 1N3600

	INCHES	MILLIMETERS
A	.078 - .107	1.98 - 2.72
B	.195 - .300	4.96 - 7.62
C	1.0 MIN. - 1.5 MAX.	25.4 MIN. - 38.1 MAX.
D	.018 - .022	.46 - .56

J, JTX & JTXV 1N4150, 1N4150-1

	INCHES	MILLIMETERS
A	.056 - .076	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

DO-7 1N3600 / DO-35 1N4150

Micro/semi Corp.
Watertown
The diode experts

ELECTRICAL SPECIFICATIONS (at 25°C unless noted)

Characteristics	Forward Voltage	Forward Voltage	Forward Voltage	Forward Voltage	Forward Voltage	Reverse Breakdown Voltage
Conditions	V_{F1} $I_F = 1$ mAdc	V_{F2} $I_F = 10$ mAdc	V_{F3} $I_F = 50$ mAdc (pulse)	V_{F4} $I_F = 100$ mAdc (pulse)	V_{F5} $I_F = 200$ mAdc (pulse)	BV $I_R = 5.0$ μAdc
Minimum Maximum	0.540 Vdc 0.620 Vdc	0.660 Vdc 0.740 Vdc	0.760 Vdc 0.860 Vdc	0.820 Vdc 0.920 Vdc	0.870 Vdc 1.00 Vdc	75 Vdc —

Characteristics	Reverse Current	Reverse Current	Junction Capacitance	Reverse Recovery Time	Reverse Recovery Time	Forward Recovery Time
Conditions	I_R $V_R = 50$ Vdc	I_R $V_R = 50$ Vdc $T_A = 150$°C	C $V_R = 0$ $F = 1$ MHz $V_{sig} = 50$ mv (p-p)	t_{rr1} $I_F = I_R =$ 10 to 200 mAdc; $R_L = 100$ ohms	t_{rr2} $I_F = I_R =$ 200 to 400 mAdc; $R_L = 100$ ohms	t_{fr} $I_F = 200$ mAdc; $t_p = 100$ nsec; $t_r = 0.4$ nsec
Maximum	0.1 μAdc	100 μAdc	2.5 pf	4 nsec	6 nsec	10 nsec

Typical Forward Current vs Voltage

Reverse Voltage vs. Reverse Current

Order of procedure diagram for non-TX and "TX" types.

5-10

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