

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

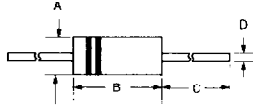
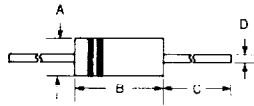
This series of switching diodes is useful in many computer switching applications, for both military and commercial systems.

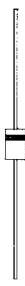
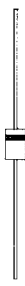
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ABSOLUTE MAXIMUM RATINGS, AT 25°C

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				J, JTX & JTXV 1N4150, 1N4150-1			
							
INCHES		MILLIMETERS		INCHES		MILLIMETERS	
A	.078 - .107	1.98 - 2.72		A	.066 - .076	1.42 - 1.91	
B	.195 - .300	4.96 - 7.62		B	.140 - .180	3.56 - 4.57	
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	

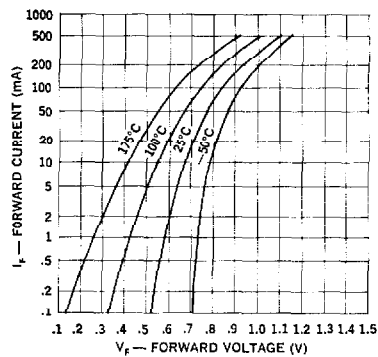
DO-7 1N3600		DO-35 1N4150	
			

ELECTRICAL SPECIFICATIONS (at 25°C unless noted)

Characteristics	Forward Voltage	Forward Voltage	Forward Voltage	Forward Voltage	Forward Voltage	Reverse Breakdown Voltage
Conditions	V_{F1} $I_F = 1 \text{ mAdc}$	V_{F2} $I_F = 10 \text{ mAdc}$	V_{F3} $I_F = 50 \text{ mAdc}$ (pulse)	V_{F4} $I_F = 100 \text{ mAdc}$ (pulse)	V_{F5} $I_F = 200 \text{ mAdc}$ (pulse)	BV $I_R = 5.0 \text{ } \mu\text{Adc}$
Minimum	0.540 Vdc	0.660 Vdc	0.760 Vdc	0.820 Vdc	0.870 Vdc	7.5 Vdc
Maximum	0.620 Vdc	0.740 Vdc	0.860 Vdc	0.920 Vdc	1.00 Vdc	—

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

