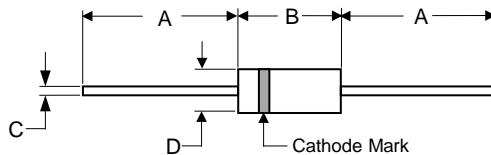


Features

- * Zener voltage 110V to 200V
- * Withstands large surge stresses
- * Also available in glass.



RoHS
COMPLIANT



DO-41				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	1.000	---	25.40	---
B	0.165	0.205	4.20	5.20
C	0.028	0.035	0.70	0.90
D	0.079	0.106	2.00	2.70

Mechanical Data

- * Case: Molded encapsulation, axial lead package(DO-41)
- * Finish: Corrosion resistant and leads are solderable.
- * Polarity: Banded end is cathode.
- * Thermal Resistance: 75°C/W
- * DC Power Dissipation: 1W
- * Junction and Storage Temperature: -65°C to +175°C
- * Power Debating: 13.3mW/°C above 100°C
- * Forward Voltage @ 200mA: 1.2 Volts

Maximum Ratings (TA=25°C unless otherwise noted)

JEDEC Type No. (Note1)	Nominal Zener Voltage Vz@IZT Volts (Note2/5)	Zener Test Current IZT mA	Max Zener Impedance (Note3)		Test Current IZK mA	Maximum Rated Zener Current (IZM) TA=100°C mA	Typical Temp.Coeff. of Zener Voltage %/ °C	Maximum Surge Current Is(A) (Note4)
			ZzT@IZT	ZzK@IZK				
			OHMS	OHMS				
1EZ110D5	110	2.3	570	5200	0.25	8.3	0.095	0.15
1EZ120D5	120	2	710	5800	0.25	8	0.095	0.14
1EZ130D5	130	1.9	910	6500	0.25	6.9	0.095	0.13
1EZ140D5	140	1.8	1100	7000	0.25	6.5	0.095	0.12
1EZ150D5	150	1.7	1300	7500	0.25	5.7	0.095	0.12
1EZ160D5	160	1.6	1400	8000	0.25	5.4	0.095	0.11
1EZ170D5	170	1.5	1450	8500	0.25	5.2	0.095	0.1
1EZ180D5	180	1.4	1500	9000	0.25	4.9	0.095	0.1
1EZ190D5	190	1.3	1700	9500	0.25	4.7	0.095	0.1
1EZ200D5	200	1.2	1900	10000	0.25	4.6	0.1	0.1

Notes:

1. Suffix 5 indicates ±5% tolerance. suffix 10 indicates ±10%, no suffix indicates ±20%. Also, suffix 1 indicates ±1%, 2nd suffix indicates ±2% on Vz tolerance.
2. Zener voltage(Vz) is measured in still air at a temperature of 25°C. The test currents (IZT) have been selected so that at nominal voltages the dissipation is a constant 0.25 watts. This results in a nominal junction temperature rise of 10°C.
3. The zener impedance is derived from the 60HZ ac voltage, which results when an ac current having an rms value equal to 10% of the DC zener current(IZT or IZK) is superimposed on IZT or IZK.
4. Maximum surge current is a non-recurrent maximum peak reverse surge with a pulse width of 8.3 milliseconds at TA=25°C(+8/-2°C).
5. Voltage measurements to be performed 90 seconds after application of DC current.



1EZ110D5 THRU 1EZ200D5

1W Silicon Zener Diodes

Ratings and Characteristic Curves

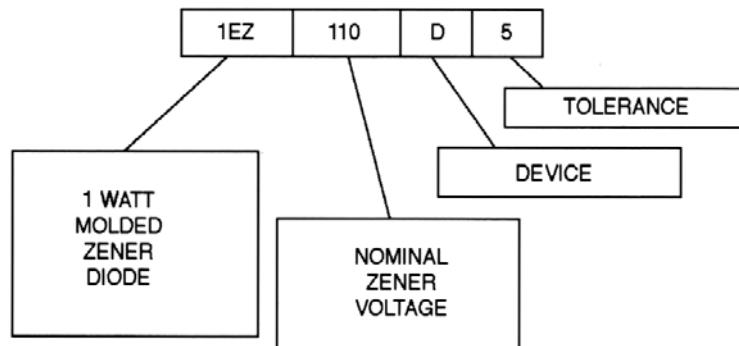


FIGURE 1

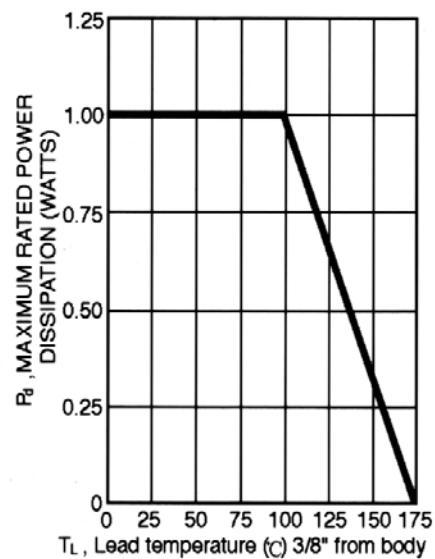


FIGURE 2 POWER DERATING CURVE



1EZ110D5 THRU 1EZ200D5

1W Silicon Zener Diodes

Ordering Information

Part No.	Package	Packing Code	Packing
1EZ110D5 THRU 1EZ200D5	DO-41	B10	1000pcs/Bulk
1EZ110D5 THRU 1EZ200D5	DO-41	A50 (52mm)	5000pcs/Ammo
1EZ110D5 THRU 1EZ200D5	DO-41	S50 (26mm)	5000pcs/Ammo
1EZ110D5 THRU 1EZ200D5	DO-41	R50	5000pcs/Reel

Disclaimer

Specifications of the products displayed herein are subject to change without notice. JGD or anyone on its behalf, assumes no responsibility or liability for any errors inaccuracies.

Information contained herein is intended to provide a product description only. No license, express or implied, to any intellectual property rights is granted by this document. Except as provided in JGD's terms and conditions of sale for such products, JGD assumes no liability whatsoever, and disclaims any express or implied warranty, relating to sale and/or use of JGD products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright, or other intellectual property right.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify JGD for any damages resulting from such improper use or sale.