DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

2EZ6.2 THRU 2EZ330

TECHNICAL SPECIFICATIONS OF GLASS PASSIVATED JUNCTION ZENER DIODES

VOLTAGE RANGE - 6.2 to 330 Volts *POWER - 2.0 Watts*

FEATURES

* Voltage Range: 6.2V to 330V
* Low leakage
* Low inductance
* High peak reverse power disspation
* Glass passivated junction
* Build-in strain relief

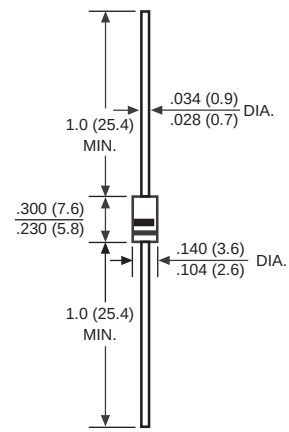
MECHANICAL DATA

* Case: Molded plastic
* Epoxy: UL 94V-0 rate flame retardant
* Lead: MIL-STD-202E, Method 208 guaranteed
* Polarity: Color band denotes cathode end
* Mounting position: Any
* Weight: 0.38 gram approx.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

DO-15



Dimensions in inches(millimeters)

	SYMBOL	VALUE	UNITS
Zener Current see Table "Characteristics"			
Power Dissipation (Notes 1) at Tamb=25°C	Ptot	2	W
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) (Notes 2)	IFSM	15	Amps
Maximum Forward Voltage at IF=200mA	VF	1.5	Volts
Operating and Storage Temperature	TJ,Tstg	-55 to + 150	°C

Notes: 1. Mounted on 5.0mm² (.013mm thick) land areas.
2. Measured on 8.3ms, single half sine-wave or equivalent square wave, duty cycle = 4 pulses per minute maximum.

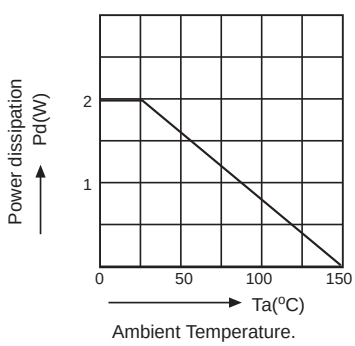


Fig. 1 - changes in the power dissipation due to the ambient temperature.

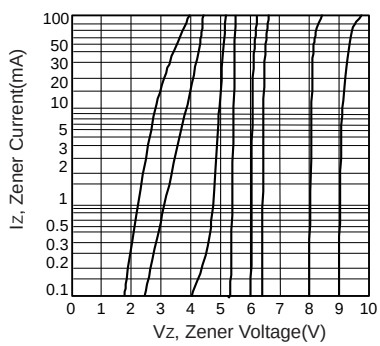


Fig. 2 - Vz=3.9 Thru 10 Volts

RATING AND CHARACTERISTIC CURVES (2EZ6.2 THRU 2EZ330)

TYPE	Nominal Zener Voltage V_Z@I_{ZT}	Zener Test Current I_{ZT} mA	Maximum Zener Impedance		I_{ZK}	Maximum Reverse Leakage Current		Maximum Regulator Current I_{ZM}
			Z_{ZT}@I_{ZT} Ohms	Z_{ZK}@I_{ZK} Ohms	mA	I_R uA	@V_R Volts	mA
2EZ6.2	6.2	80.5	1.5	700	1.00	50.0	3.0	292.0
2EZ6.8	6.8	73.5	2.0	700	1.00	50.0	4.0	266.0
2EZ7.5	7.5	66.5	2.0	700	0.50	50.0	5.0	242.0
2EZ8.2	8.2	61.0	2.3	700	0.50	50.0	6.0	220.0
2EZ9.1	9.1	55.0	2.5	700	0.50	50.0	7.0	200.0
2EZ10	10.0	50.0	3.5	700	0.25	50.0	7.6	182.0
2EZ11	11	45.5	4.0	700	0.25	50.0	8.4	166.0
2EZ12	12	41.5	4.5	700	0.25	1.0	9.1	152.0
2EZ13	13	38.5	5.0	700	0.25	0.5	9.9	138.0
2EZ15	15	33.4	7.0	700	0.25	0.5	11.4	122.0
2EZ16	16	31.2	8.0	700	0.25	0.5	12.2	114.0
2EZ18	18	27.8	10	750	0.25	0.5	13.7	100.0
2EZ20	20	25.0	11	750	0.25	0.5	15.2	90.0
2EZ22	22	22.8	12	750	0.25	0.5	16.7	82.0
2EZ24	24	20.8	13	750	0.25	0.5	18.2	76.0
2EZ27	27	18.5	18	750	0.25	0.5	20.6	68.0
2EZ30	30	16.6	20	1000	0.25	0.5	22.5	60.0
2EZ33	33	15.1	23	1000	0.25	0.5	25.1	55.0
2EZ36	36	13.9	25	1000	0.25	0.5	27.4	50.0
2EZ39	39	12.8	30	1000	0.25	0.5	29.7	47.0
2EZ43	43	11.6	35	1500	0.25	0.5	32.7	43.0
2EZ47	47	10.6	40	1500	0.25	0.5	35.8	39.0
2EZ51	51	9.8	48	1500	0.25	0.5	38.8	36.0
2EZ56	56	9.0	55	2000	0.25	0.5	42.6	32.0
2EZ62	62	8.1	60	2000	0.25	0.5	47.1	29.0
2EZ68	68	7.4	75	2000	0.25	0.5	51.7	27.0
2EZ75	75	6.7	90	2000	0.25	0.5	56.0	24.0
2EZ82	82	6.1	100	3000	0.25	0.5	62.2	22.0
2EZ91	91	5.5	125	3000	0.25	0.5	69.2	20.0
2EZ100	100	5.0	175	3000	0.25	0.5	76.0	18.0
2EZ110	110	4.5	250	4000	0.25	0.5	83.6	17.0
2EZ120	120	4.2	325	4500	0.25	0.5	91.2	15.0
2EZ130	130	3.8	400	5000	0.25	0.5	98.8	14.0
2EZ140	140	3.6	500	5500	0.25	0.5	106.4	13.0
2EZ150	150	3.3	575	6000	0.25	0.5	114.0	12.0
2EZ160	160	3.1	650	6500	0.25	0.5	121.6	11.0
2EZ170	170	2.9	675	7000	0.25	0.5	130.4	11.0
2EZ180	180	2.8	725	7000	0.25	0.5	136.8	10.0
2EZ190	190	2.6	825	8000	0.25	0.5	144.8	10.0
2EZ200	200	2.5	1900	9990	0.25	0.5	152.0	9.0
2EZ220	220	2.0	2000	8500	0.25	0.5	167.0	8.0
2EZ270	270	1.6	2200	8500	0.25	0.5	205.0	6.7
2EZ300	300	1.5	2200	9000	0.25	0.5	228.0	5.9
2EZ330	330	1.4	2300	9000	0.25	0.5	250.0	5.4

NOTE: Standard Zener Voltage Tolerance ± 5%

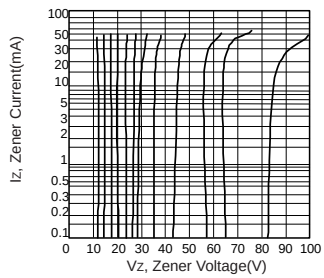


Fig. 3 - V_Z=12 Thru 82 Volts

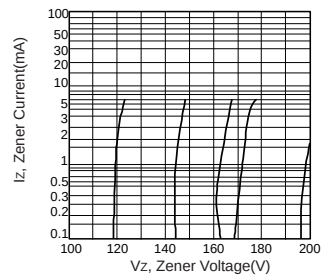


Fig. 4 - V_Z=100 Thru 200 Volts

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