

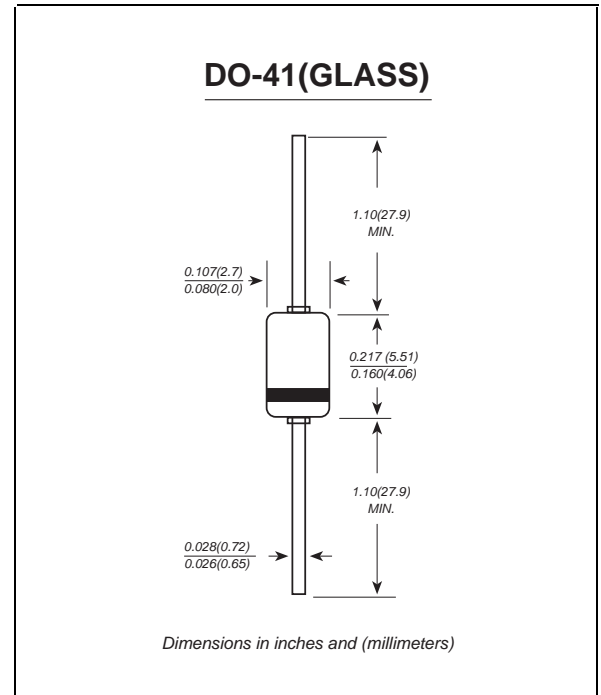
2EZ3.6~2EZ200
2000mW Zener Diodes

Features

- ◆ Low zener impedance
- ◆ Low regulation factor
- ◆ Glass passivated junction
- ◆ High temperature soldering guaranteed:
260°C/10S/9.5mm lead length at 5 lbs tension

Mechanical Data

Case: JEDEC DO-41(GLASS) molded glass body
Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026
Polarity: Color band denotes cathode end
Mounting Position: Any
Weight: 0.012 ounce,0.35 grams



Maximum Ratings And Electrical Characteristics

Ratings at 25 C ambient temperature unless otherwise specified.

	<i>SYMBOLS</i>	<i>VALUE</i>	<i>UNITS</i>
Zener Current see Table Characteristics			
Power Dissipation at Tamb=75°C(Note 1)	P _{tot}	2000	mW
Junction Temperature	T _j	-55 to + 175	°C
Storage Temperature Range	T _{STG}	-55 to + 175	°C
Thermal resistance junction ambient(Note 1)	R _{θJA}	170	°C/W
Forward voltage at I _F =200mA	V _F	1.2	V

Note : Valid provided that leads at a distance of 10mm from case are kept at ambient temperature

Electrical Characteristics (at T_A=25°C unless otherwise noted)

TYPE	Nominal Zener Voltage		Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current
	V _Z @ I _{ZT}	I _{ZT}	Z _{ZT} @ I _{ZT}	Z _{ZK} @ I _{ZK}	I _{ZK}	I _R @ V _R	I _{ZM}	
	(V)	(mA)	(Ω)	(Ω)	(mA)	(μA)	(V)	(mA)
2EZ3.6	3.6	139	5.0	400	1.0	80	1.0	504
2EZ3.9	3.9	128	5.0	400	1.0	30	1.0	468
2EZ4.3	4.3	116	4.5	400	1.0	20	1.0	434
2EZ4.7	4.7	106	4.5	550	1.0	5.0	1.0	386
2EZ5.1	5.1	98.0	3.5	600	1.0	5.0	1.0	356
2EZ5.6	5.6	89.5	2.5	500	1.0	5.0	2.0	324
2EZ6.2	6.2	80.5	1.5	700	1.0	5.0	3.0	292
2EZ6.8	6.8	73.5	2.0	700	1.0	5.0	4.0	266
2EZ7.5	7.5	66.5	2.0	700	0.5	50	5.0	242
2EZ8.2	8.2	61.0	2.3	700	0.5	50	6.0	220
2EZ9.1	9.1	55.0	2.5	700	0.5	50	7.0	200
2EZ10	10	50.0	3.5	700	0.25	50	7.6	182
2EZ11	11	45.5	4.0	700	0.25	50	8.4	166
2EZ12	12	41.5	4.5	700	0.25	1.0	9.1	152
2EZ13	13	38.5	5.0	700	0.25	0.5	9.9	138
2EZ14	14	35.7	5.5	700	0.25	0.5	10.6	130
2EZ15	15	33.4	7.0	700	0.25	0.5	11.4	122
2EZ16	16	31.2	8.0	700	0.25	0.5	12.2	114
2EZ17	17	29.4	9.0	750	0.25	0.5	13.0	107
2EZ18	18	27.8	10	750	0.25	0.5	13.7	100
2EZ19	19	26.3	11	750	0.25	0.5	14.4	95
2EZ20	20	25.0	11	750	0.25	0.5	15.2	90
2EZ22	22	22.8	12	750	0.25	0.5	16.7	82
2EZ24	24	20.8	13	750	0.25	0.5	18.2	76
2EZ27	27	18.5	18	750	0.25	0.5	20.6	68
2EZ30	30	16.6	20	1000	0.25	0.5	22.5	60
2EZ33	33	15.1	23	1000	0.25	0.5	25.1	55
2EZ36	36	13.9	25	1000	0.25	0.5	27.4	50
2EZ39	39	12.8	30	1000	0.25	0.5	29.7	47
2EZ43	43	11.6	35	1500	0.25	0.5	32.7	43
2EZ47	47	10.6	40	1500	0.25	0.5	35.8	39
2EZ51	51	9.8	48	1500	0.25	0.5	38.8	36
2EZ56	56	9.0	55	2000	0.25	0.5	42.6	32
2EZ62	62	8.1	60	2000	0.25	0.5	47.1	29
2EZ68	68	7.4	75	2000	0.25	0.5	51.7	27
2EZ75	75	6.7	90	2000	0.25	0.5	56.0	24
2EZ82	82	6.1	100	3000	0.25	0.5	62.2	22
2EZ91	91	5.5	125	3000	0.25	0.5	69.2	20
2EZ100	100	5.0	175	3000	0.25	0.5	76.0	18
2EZ110	110	4.5	250	4000	0.25	0.5	83.6	17
2EZ120	120	4.2	325	4500	0.25	0.5	91.2	15
2EZ130	130	3.8	400	5000	0.25	0.5	98.8	14
2EZ140	140	3.6	500	5500	0.25	0.5	106.4	13
2EZ150	150	3.3	575	6000	0.25	0.5	114.0	12
2EZ160	160	3.1	650	6500	0.25	0.5	121.6	11
2EZ170	170	2.9	675	7000	0.25	0.5	130.4	11
2EZ180	180	2.8	725	7000	0.25	0.5	136.8	10
2EZ190	190	2.6	825	8000	0.25	0.5	144.8	10
2EZ200	200	2.5	900	8000	0.25	0.5	152.0	9.0

Note :

- (1) Suffix " 5 " indicates ± 5.0% tolerance, suffix " 10 " indicates ± 10.0% tolerance.
- (2) " EZ " will be omitted in marking on the diode

Electrical Characteristics (at $T_A=25^\circ\text{C}$ unless otherwise noted)

Fig. 1 POWER TEMPERATURE DERATING CURVE

