

## IV. Zener Diode

### Zener Diode (2.0 Watt) 2EZ3.6A~2EZ200A

(Package: DO-41)

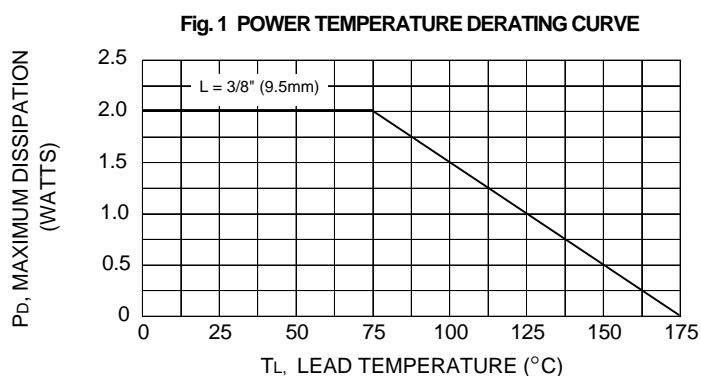
<p><b>FEATURES</b></p> <ul style="list-style-type: none"> <li>• Complete voltage range 3.6 to 200 Volts</li> <li>• High peak reverse power dissipation</li> <li>• High reliability</li> <li>• Low leakage current</li> </ul> <p><b>MECHANICAL DATA</b></p> <ul style="list-style-type: none"> <li>• Case : DO-41 molded plastic</li> <li>• Epoxy : UL94V-0 rate flame retardant</li> <li>• Lead : Axial lead solderable per MIL-STD-202, method 208 guaranteed</li> <li>• Polarity : Color band denotes cathode end</li> <li>• Mounting position : Any</li> <li>• Weight : 0.26 grams</li> </ul>	<p>Case: DO-41 Dimensions in inches and (millimeters)</p>
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## Ratings & Electrical Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.			
Rating	Symbol	Value	Units
DC power dissipation at $T_L = 75$ (Note 1)	$P_D$	2.0	Watts
Maximum forward voltage at $I_F = 200\text{mA}$	$V_F$	1.2	Volts
Maximum thermal resistance junction to ambient air (Note 2)	$R_{th-JA}$	60	$^{\circ}\text{C}/\text{W}$
Junction temperature range	$T_j$	-55 to +175	
Storage temperature range	$T_{stg}$	-55 to +175	

Notes:

1.  $T_L$  = Lead temperature at 3/8" (9.5mm) from body.
2. Valid provided that leads are kept at ambient temperature at a distance of 10mm from case.



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(Package: DO-41)

Device 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)	( $\Omega$ )	( $\Omega$ )	(mA)	( $\mu$ A)	(V)	(mA)
2EZ3.6A	3.6	139	5.0	400	1.0	80	1.0	504
2EZ3.9A	3.9	128	5.0	400	1.0	30	1.0	468
2EZ4.3A	4.3	116	4.5	400	1.0	20	1.0	434
2EZ4.7A	4.7	106	4.5	550	1.0	5.0	1.0	386
2EZ5.1A	5.1	98.0	3.5	600	1.0	5.0	1.0	356
2EZ5.6A	5.6	89.5	2.5	500	1.0	5.0	2.0	324
2EZ6.2A	6.2	80.5	1.5	700	1.0	5.0	3.0	292
2EZ6.8A	6.8	73.5	2.0	700	1.0	5.0	4.0	266
2EZ7.5A	7.5	66.5	2.0	700	0.5	50	5.0	242
2EZ8.2A	8.2	61.0	2.3	700	0.5	50	6.0	220
2EZ9.1A	9.1	55.0	2.5	700	0.5	50	7.0	200
2EZ10A	10	50.0	3.5	700	0.25	50	7.6	182
2EZ11A	11	45.5	4.0	700	0.25	50	8.4	166
2EZ12A	12	41.5	4.5	700	0.25	1.0	9.1	152
2EZ13A	13	38.5	5.0	700	0.25	0.5	9.9	138
2EZ14A	14	35.7	5.5	700	0.25	0.5	10.6	130
2EZ15A	15	33.4	7.0	700	0.25	0.5	11.4	122
2EZ16A	16	31.2	8.0	700	0.25	0.5	12.2	114
2EZ17A	17	29.4	9.0	750	0.25	0.5	13.0	107
2EZ18A	18	27.8	10	750	0.25	0.5	13.7	100
2EZ19A	19	26.3	11	750	0.25	0.5	14.4	95
2EZ20A	20	25.0	11	750	0.25	0.5	15.2	90
2EZ22A	22	22.8	12	750	0.25	0.5	16.7	82
2EZ24A	24	20.8	13	750	0.25	0.5	18.2	76
2EZ27A	27	18.5	18	750	0.25	0.5	20.6	68
2EZ30A	30	16.6	20	1000	0.25	0.5	22.5	60
2EZ33A	33	15.1	23	1000	0.25	0.5	25.1	55
2EZ36A	36	13.9	25	1000	0.25	0.5	27.4	50
2EZ39A	39	12.8	30	1000	0.25	0.5	29.7	47
2EZ43A	43	11.6	35	1500	0.25	0.5	32.7	43
2EZ47A	47	10.6	40	1500	0.25	0.5	35.8	39
2EZ51A	51	9.8	48	1500	0.25	0.5	38.8	36
2EZ56A	56	9.0	55	2000	0.25	0.5	42.6	32
2EZ62A	62	8.1	60	2000	0.25	0.5	47.1	29
2EZ68A	68	7.4	75	2000	0.25	0.5	51.7	27
2EZ75A	75	6.7	90	2000	0.25	0.5	56.0	24
2EZ82A	82	6.1	100	3000	0.25	0.5	62.2	22
2EZ91A	91	5.5	125	3000	0.25	0.5	69.2	20
2EZ100A	100	5.0	175	3000	0.25	0.5	76.0	18
2EZ110A	110	4.5	250	4000	0.25	0.5	83.6	17
2EZ120A	120	4.2	325	4500	0.25	0.5	91.2	15
2EZ130A	130	3.8	400	5000	0.25	0.5	98.8	14
2EZ140A	140	3.6	500	5500	0.25	0.5	106.4	13
2EZ150A	150	3.3	575	6000	0.25	0.5	114.0	12
2EZ160A	160	3.1	650	6500	0.25	0.5	121.6	11
2EZ170A	170	2.9	675	7000	0.25	0.5	130.4	11
2EZ180A	180	2.8	725	7000	0.25	0.5	136.8	10
2EZ190A	190	2.6	825	8000	0.25	0.5	144.8	10
2EZ200A	200	2.5	900	8000	0.25	0.5	152.0	9.0

Notes :

Suffix "A" indicates +/-5% tolerance.