

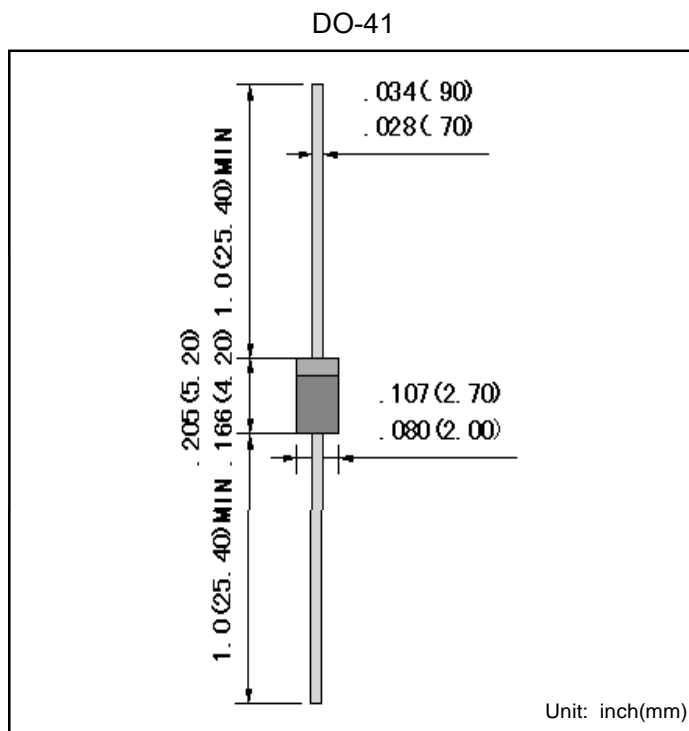
Axial Zener Diodes

Features:

- Glass passivated chip
- Built-in strain relief
- Low inductance
- High peak reverse power dissipation
- Low reverse leakage
- For use in stabilizing and clipping with high power rating
- RoHS compliant

Mechanical Data:

- Case: DO-41 Molded plastic
- Lead: Solderable per MIL-STD-750, method 2026
- Epoxy: UL 94V-0 rate flame retardant
- Polarity: Color band denotes cathode end
- Mounting position: Any



Parameter	Symbols	Value	Unit
DC Power dissipation at TL = 75 °C ⁽¹⁾	P _D	2.0	W
Maximum forward voltage at if=200mA	V _F	1.2	V
Junction temperature range	T _J , T _{STG}	-55 to +150	°C
Storage temperature range	T _J , T _{STG}	-55 to +150	°C

Note :

(1) T_L=Lead temperature at 3/8" (9.5mm)from body

Ratings and Characteristics Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

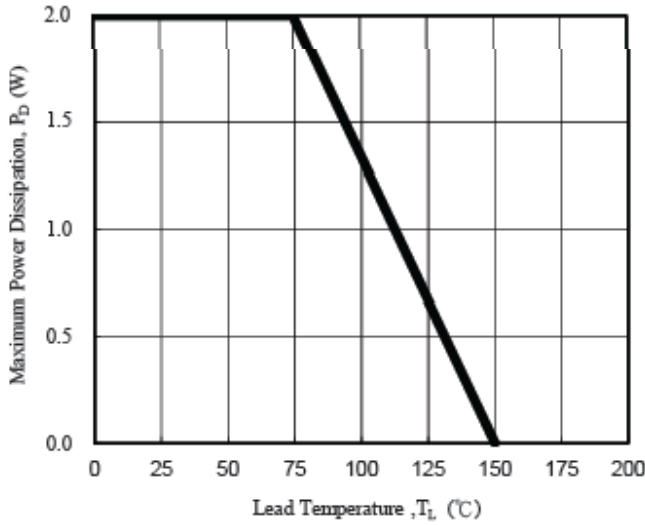


Fig. 1 - Power Temperature Derating Curve

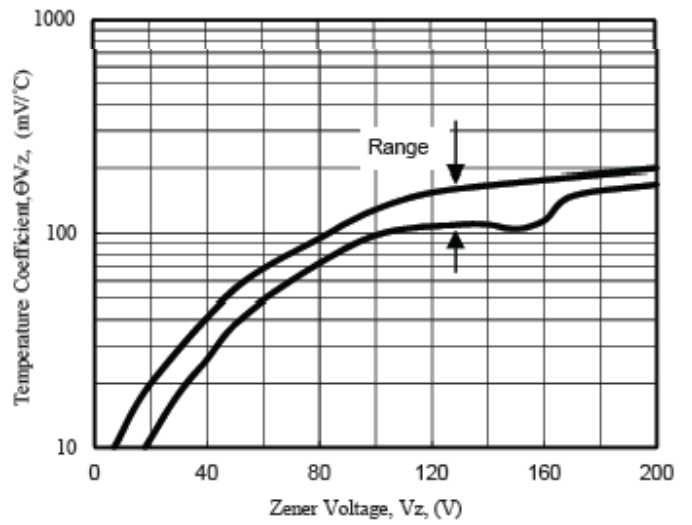


Fig. 2 - Temperature Coefficients v.s. Zener Voltage

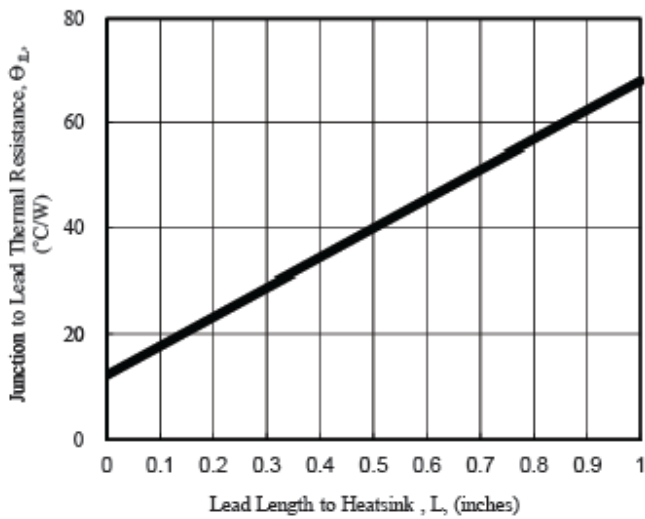


Fig. 3 - Typical Thermal Resistance v.s. Lead Length

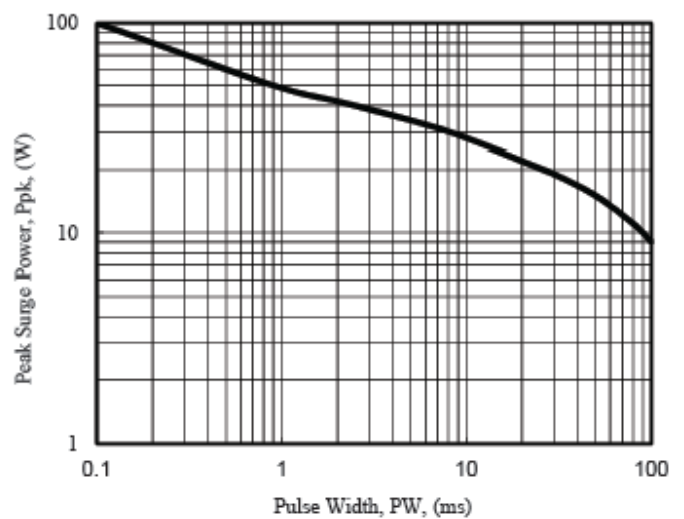


Fig. 4 - Maximum Surge Power

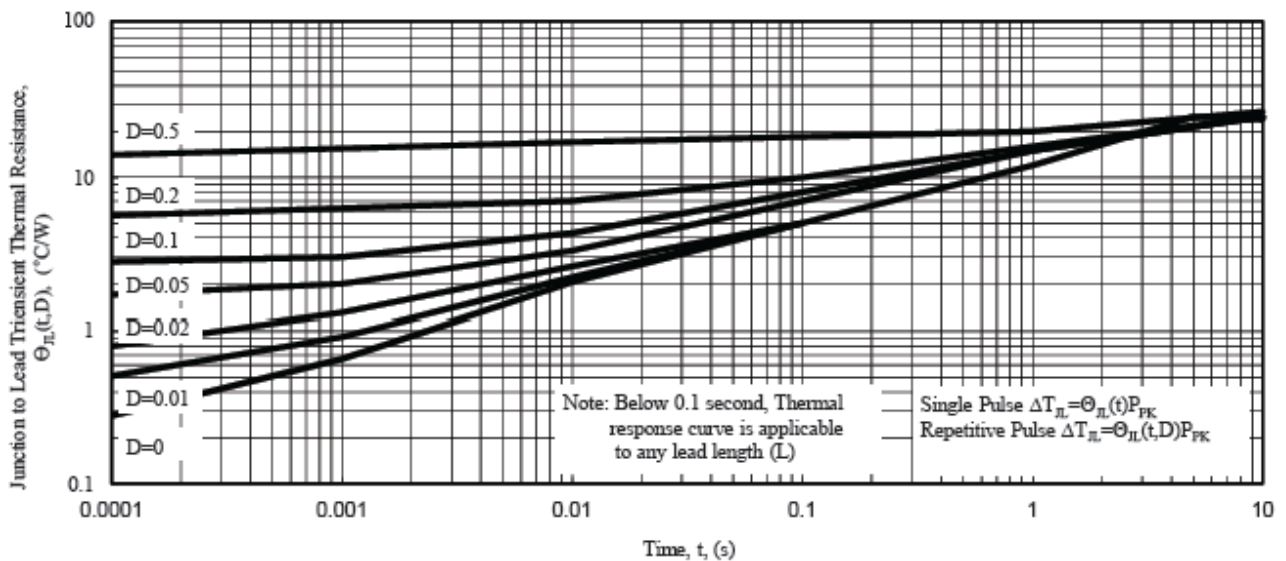


Fig. 5 - Typical Thermal Response L, Lead Length=3/8inch

Part Number	Nominal Zener Voltage @I _T			I _{ZT} (mA)	Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current
	V _{Z AVE.} (V)	V _{Z MIN.} (V)	V _{Z MAX.} (V)		Z _{ZT MAX.} (Ω) @I _{ZT}	Z _{ZK MAX.} (Ω) @I _{ZK}	I _{ZK} (mA)	I _R (μA)@ V _R	V _R (V)	
2EZ3.3AD1	3.3	3.14	3.47	145.0	8.0	400	1.00	100	1.0	548.0
2EZ3.6AD1	3.6	3.42	3.78	139.0	5.0	400	1.00	100	1.0	502.0
2EZ3.9AD1	3.9	3.71	4.10	128.0	5.0	400	1.00	50	1.0	464.0
2EZ4.3AD1	4.3	4.09	4.52	116.0	4.5	400	1.00	50	1.0	421.0
2EZ4.7AD1	4.7	4.47	4.94	106.0	4.5	550	1.00	10	1.0	385.0
2EZ5.1AD1	5.1	4.85	5.36	98.0	3.5	600	1.00	10	1.0	354.0
2EZ5.6AD1	5.6	5.32	5.88	89.5	2.5	500	1.00	10	2.0	323.0
2EZ6.2AD1	6.2	5.89	6.51	80.5	1.5	700	1.00	10	3.0	292.0
2EZ6.8AD1	6.8	6.46	7.14	73.5	2.0	700	1.00	10	4.0	266.0
2EZ7.5AD1	7.5	7.13	7.88	66.5	2.0	700	0.50	10	5.0	242.0
2EZ8.2AD1	8.2	7.79	8.61	61.0	2.3	700	0.50	10	6.0	220.0
2EZ9.1AD1	9.1	8.65	9.56	55.0	2.5	700	0.50	10	7.0	200.0
2EZ10AD1	10.0	9.50	10.50	50.0	3.5	700	0.25	10	7.6	182.0
2EZ11AD1	11.0	10.45	11.55	45.5	4.0	700	0.25	0.5	8.4	166.0
2EZ12AD1	12.0	11.40	12.60	41.5	4.5	700	0.25	0.5	9.1	152.0
2EZ13AD1	13.0	12.35	13.65	38.5	5.0	700	0.25	0.5	9.9	138.0
2EZ14AD1	14.0	13.30	14.70	35.7	5.5	700	0.25	0.5	10.6	130.0
2EZ15AD1	15.0	14.25	15.75	33.4	7.0	700	0.25	0.5	11.4	122.0
2EZ16AD1	16.0	15.20	16.80	31.2	8.0	700	0.25	0.5	12.2	114.0
2EZ17AD1	17.0	16.15	17.85	29.4	9.0	750	0.25	0.5	13.0	107.0
2EZ18AD1	18.0	17.10	18.90	27.8	10.0	750	0.25	0.5	13.7	100.0
2EZ19AD1	19.0	18.05	19.95	26.3	11.0	750	0.25	0.5	14.4	95.0
2EZ20AD1	20.0	19.00	21.00	25.0	11.0	750	0.25	0.5	15.2	90.0
2EZ22AD1	22.0	20.90	23.10	22.8	12.0	750	0.25	0.5	16.7	82.0
2EZ24AD1	24.0	22.80	25.20	20.8	13.0	750	0.25	0.5	18.2	76.0
2EZ27AD1	27.0	25.65	28.35	18.5	18.0	750	0.25	0.5	20.6	68.0
2EZ30AD1	30.0	28.50	31.50	16.6	20.0	1000	0.25	0.5	22.5	60.0
2EZ33AD1	33.0	31.35	34.65	15.1	23.0	1000	0.25	0.5	25.1	55.0
2EZ36AD1	36.0	34.20	37.80	13.9	25.0	1000	0.25	0.5	27.4	50.0
2EZ39AD1	39.0	37.05	40.95	12.8	30.0	1000	0.25	0.5	29.7	47.0
2EZ43AD1	43.0	40.85	45.15	11.6	35.0	1500	0.25	0.5	32.7	43.0
2EZ47AD1	47.0	44.65	49.35	10.6	40.0	1500	0.25	0.5	35.8	39.0
2EZ51AD1	51.0	48.45	53.55	9.8	48.0	1500	0.25	0.5	38.8	36.0
2EZ56AD1	56.0	53.20	58.80	9.0	55.0	2000	0.25	0.5	42.6	32.0
2EZ62AD1	62.0	58.90	65.10	8.1	60.0	2000	0.25	0.5	47.1	29.0
2EZ68AD1	68.0	64.60	71.40	7.4	75.0	2000	0.25	0.5	51.7	27.0
2EZ75AD1	75.0	71.25	78.75	6.7	90.0	2000	0.25	0.5	56.0	24.0
2EZ82AD1	82.0	77.90	86.10	6.1	100.0	3000	0.25	0.5	62.2	22.0
2EZ91AD1	91.0	86.45	95.55	5.5	125.0	3000	0.25	0.5	69.2	20.0
2EZ100AD1	100.0	95.00	105.00	5.0	175.0	3000	0.25	0.5	76.0	18.0
2EZ110AD1	110.0	104.50	115.50	4.5	250.0	4000	0.25	0.5	83.6	17.0
2EZ120AD1	120.0	114.00	126.00	4.2	325.0	4500	0.25	0.5	91.2	15.0
2EZ130AD1	130.0	123.50	136.50	3.8	400.0	5000	0.25	0.5	98.8	14.0
2EZ140AD1	140.0	133.00	147.00	3.6	500.0	5500	0.25	0.5	106.4	13.0
2EZ150AD1	150.0	142.50	157.50	3.3	575.0	6000	0.25	0.5	114.0	12.0
2EZ160AD1	160.0	152.00	168.00	3.1	650.0	6500	0.25	0.5	121.6	11.0
2EZ170AD1	170.0	161.50	178.50	2.9	675.0	7000	0.25	0.5	130.4	11.0
2EZ180AD1	180.0	171.00	189.00	2.8	725.0	7000	0.25	0.5	136.8	10.0
2EZ190AD1	190.0	180.50	199.50	2.6	825.0	8000	0.25	0.5	144.8	10.0
2EZ200AD1	200.0	190.00	210.00	2.5	1900.0	9990	0.25	0.5	152.0	9.0