

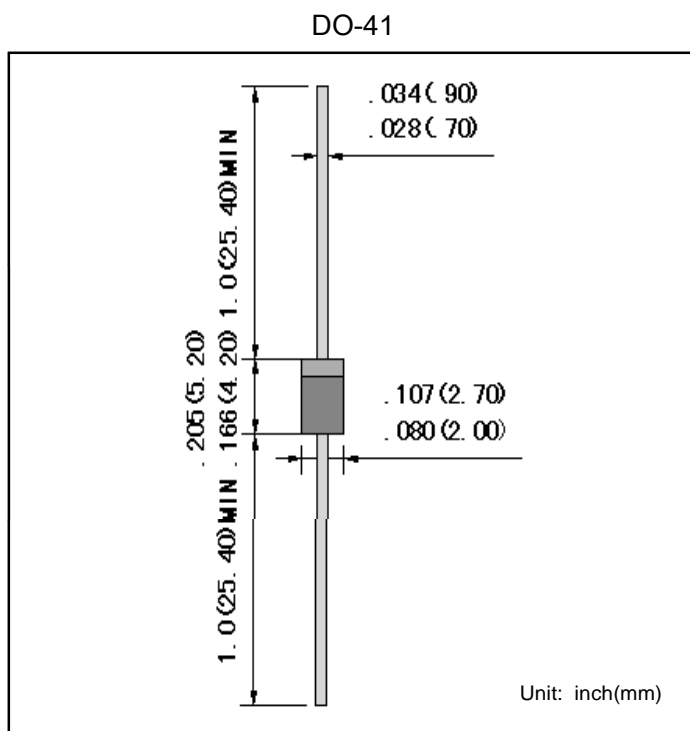
Axial Zener Diodes

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	3.0	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)

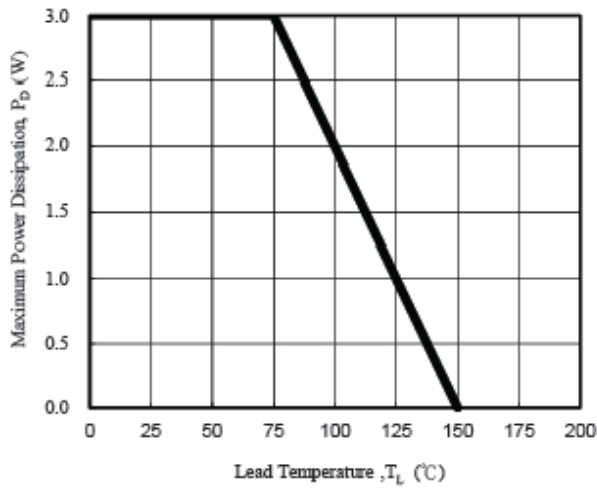


Fig. 1 - Power Temperature Derating Curve

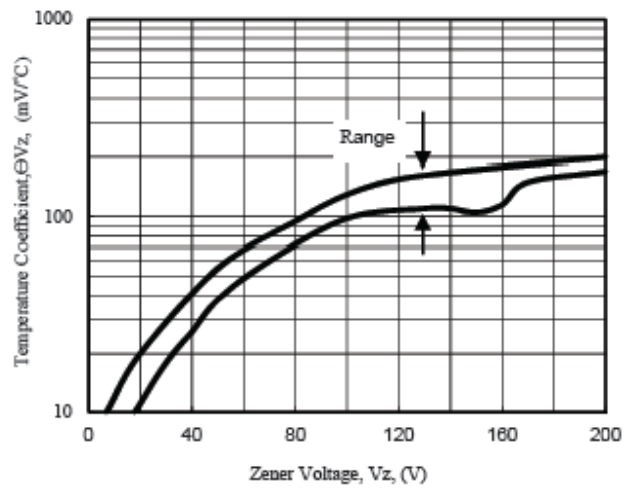


Fig. 2 - Temperature Coefficients v.s. Zener Voltage

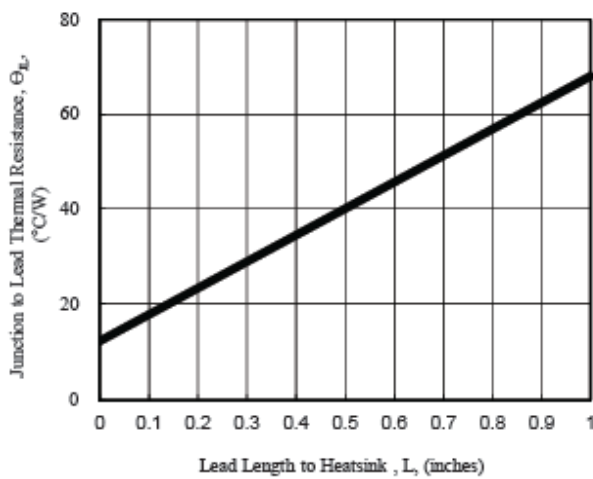


Fig. 3 - Typical Thermal Resistance v.s. Lead Length

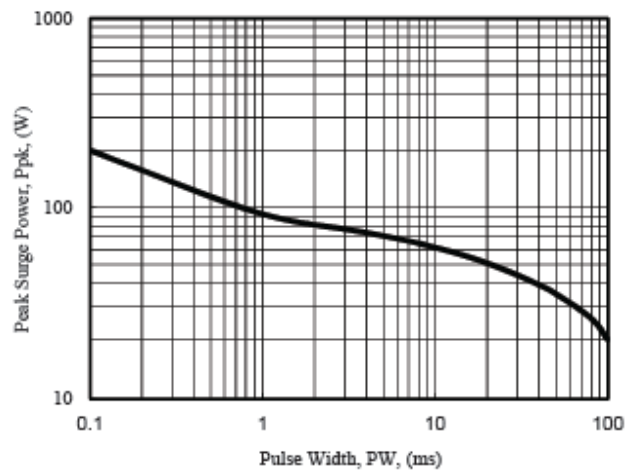


Fig. 4 - Maximum Surge Power

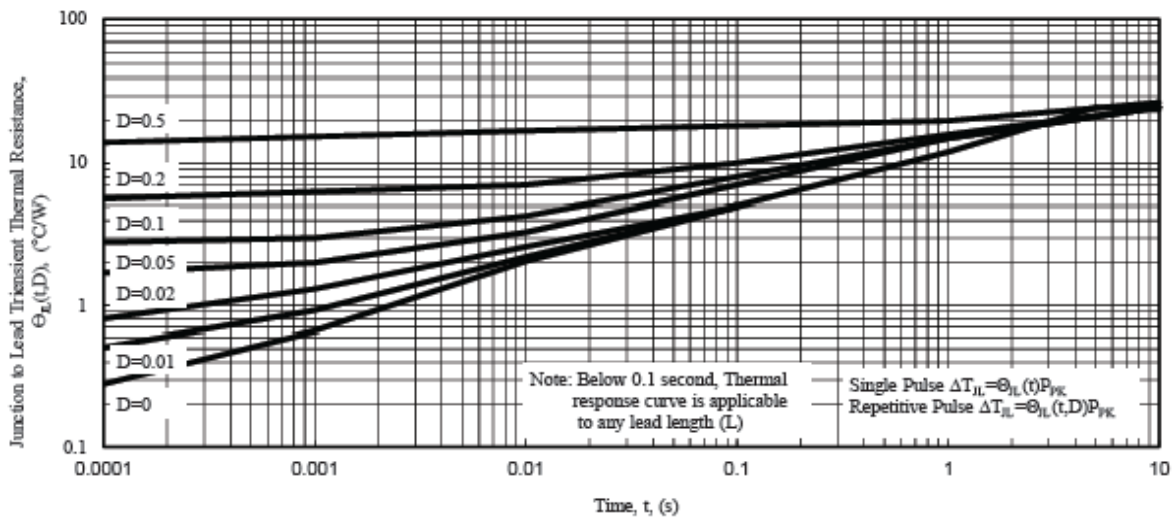


Fig. 5 - Typical Thermal Response L, Lead Length=3/8inch

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 (uA)@V _R	V _R (V)	
3EZ3.3AD1	3.3	3.14	3.47	227.3	10.0	500.0	1.00	100.0	1.0	817.0
3EZ3.6AD1	3.6	3.42	3.78	208.3	9.0	500.0	1.00	75.0	1.0	749.0
3EZ3.9AD1	3.9	3.71	4.10	192.0	4.5	400.0	1.00	80.0	1.0	691.0
3EZ4.3AD1	4.3	4.09	4.52	174.0	4.5	400.0	1.00	30.0	1.0	627.0
3EZ4.7AD1	4.7	4.47	4.94	160.0	4.0	500.0	1.00	20.0	1.0	573.0
3EZ5.1AD1	5.1	4.85	5.36	147.0	3.5	550.0	1.00	5.0	1.0	528.0
3EZ5.6AD1	5.6	5.32	5.88	134.0	2.5	600.0	1.00	5.0	2.0	481.0
3EZ6.2AD1	6.2	5.89	6.51	121.0	1.5	700.0	1.00	5.0	3.0	435.0
3EZ6.8AD1	6.8	6.46	7.14	110.0	2.0	700.0	1.00	5.0	4.0	393.0
3EZ7.5AD1	7.5	7.13	7.88	100.0	2.0	700.0	0.50	5.0	5.0	360.0
3EZ8.2AD1	8.2	7.79	8.61	91.0	2.3	700.0	0.50	5.0	6.0	330.0
3EZ9.1AD1	9.1	8.65	9.56	82.0	2.5	700.0	0.50	3.0	7.0	297.0
3EZ10AD1	10.0	9.50	10.50	75.0	3.5	700.0	0.25	3.0	7.6	270.0
3EZ11AD1	11.0	10.45	11.55	68.0	4.0	700.0	0.25	1	8.4	225.0
3EZ12AD1	12.0	11.40	12.60	63.0	4.5	700.0	0.25	1	9.1	246.0
3EZ13AD1	13.0	12.35	13.65	58.0	4.5	700.0	0.25	0.5	9.9	208.0
3EZ14AD1	14.0	13.30	14.70	53.0	5.0	700.0	0.25	0.5	10.6	193.0
3EZ15AD1	15.0	14.25	15.75	50.0	5.5	700.0	0.25	0.5	11.4	180.0
3EZ16AD1	16.0	15.20	16.80	47.0	5.5	700.0	0.25	0.5	12.2	169.0
3EZ17AD1	17.0	16.15	17.85	44.0	6.0	750.0	0.25	0.5	13.0	159.0
3EZ18AD1	18.0	17.10	18.90	42.0	6.0	750.0	0.25	0.5	13.7	150.0
3EZ19AD1	19.0	18.05	19.95	40.0	7.0	750.0	0.25	0.5	14.4	142.0
3EZ20AD1	20.0	19.00	21.00	37.0	7.0	750.0	0.25	0.5	15.2	135.0
3EZ22AD1	22.0	20.90	23.10	34.0	8.0	750.0	0.25	0.5	16.7	123.0
3EZ24AD1	24.0	22.80	25.20	31.0	9.0	750.0	0.25	0.5	18.2	112.0
3EZ27AD1	27.0	25.65	28.35	28.0	10.0	750.0	0.25	0.5	20.6	100.0
3EZ30AD1	30.0	28.50	31.50	25.0	16.0	1000.0	0.25	0.5	22.5	90.0
3EZ33AD1	33.0	31.35	34.65	23.0	20.0	1000.0	0.25	0.5	25.1	82.0
3EZ36AD1	36.0	34.20	37.80	21.0	22.0	1000.0	0.25	0.5	27.4	75.0
3EZ39AD1	39.0	37.05	40.95	19.0	28.0	1000.0	0.25	0.5	29.7	69.0
3EZ43AD1	43.0	40.85	45.15	17.0	33.0	1500.0	0.25	0.5	32.7	63.0
3EZ47AD1	47.0	44.65	49.35	16.0	38.0	1500.0	0.25	0.5	35.6	57.0
3EZ51AD1	51.0	48.45	53.55	15.0	45.0	1500.0	0.25	0.5	38.8	53.0