

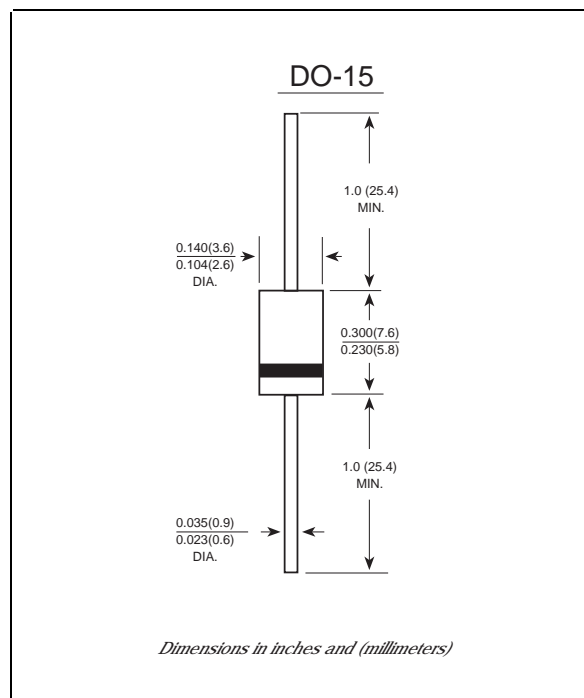
3EZ4.7~3EZ51 3000mW Zener Diodes

Features

- ◆ Low zener impedance
- ◆ Low regulation factor
- ◆ Glass passivated junction
- ◆ High temperature soldering guaranteed:
260°C/10 seconds at terminals

Mechanical Data

Case: JEDEC DO-15 molded glass body
 Terminals: solderable per MIL-STD-750, Method 2026
 Polarity: Color band denotes cathode end
 Mounting Position: Any
 Weight: 0.014 ounce, 0.40 grams



Maximum Ratings And Electrical Characteristics

Ratings at 25 C ambient temperature unless otherwise specified.

Parameter	Symbol	Value	Units
Steady State Power Dissipation at $T_L=75^\circ\text{C}$ (Note 1)	P_D	3.0	Watts
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	15	Amps
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to + 150	$^\circ\text{C}$

NOTES:

- Mounted on 5.0mm² (.013mm thick) land areas.
- Measured on 8.3ms, and single half sine-wave or equivalent square wave, duty cycle=4 pulses per minute maximum.
- Tolerance and Type Number Designation. The type numbers listed have a standard tolerance on the nominal zener voltage of $\pm 5\%$.

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

Part Number	Nominal Zener Voltage			Maximum Zener Impedance				Max Reverse Leakage Current		Marking Code
	V _Z @ I _{ZT}			Z _{ZT} @ I _{ZT}	I _{ZT}	Z _{ZK} @ I _{ZK}	I _{ZK}	I _R @ V _R		
	Nom. V	Min. V	Max. V	Ω	mA	Ω	mA	μA	V	
3.0 Watt ZENER										
3EZ6.8	6.8	6.46	7.14	2	110	700	1	5	4	3EZ6.8
3EZ7.5	7.5	7.13	7.88	2	100	700	0.5	5	5	3EZ7.5
3EZ8.2	8.2	7.79	8.61	2	91	700	0.5	5	6	3EZ8.2
3EZ8.7	8.7	8.27	9.14	2	85	700	0.5	4	6.6	3EZ8.7
3EZ9.1	9.1	8.65	9.56	3	82	700	0.5	3	7	3EZ9.1
3EZ10	10	9.5	10.5	4	75	700	0.25	3	7.6	3EZ10
3EZ11	11	10.45	11.55	4	68	700	0.25	1	8.4	3EZ11
3EZ12	12	11.4	12.6	5	63	700	0.25	1	9.1	3EZ12
3EZ13	13	12.35	13.65	5	58	700	0.25	0.5	9.9	3EZ13
3EZ14	14	13.3	14.7	5	53	700	0.25	0.5	10.6	3EZ14
3EZ15	15	14.25	15.75	6	50	700	0.25	0.5	11.4	3EZ15
3EZ16	16	15.2	16.8	6	47	700	0.25	0.5	12.2	3EZ16
3EZ17	17	16.15	17.85	6	44	750	0.25	0.5	13	3EZ17
3EZ18	18	17.1	18.9	6	42	750	0.25	0.5	13.7	3EZ18
3EZ19	19	18.05	19.95	7	40	750	0.25	0.5	14.4	3EZ19
3EZ20	20	19	21	7	37	750	0.25	0.5	15.2	3EZ20
3EZ22	22	20.9	23.1	8	34	750	0.25	0.5	16.7	3EZ22
3EZ24	24	22.8	25.2	9	31	750	0.25	0.5	18.2	3EZ24
3EZ25	25	23.75	26.25	10	30	750	0.25	0.5	19	3EZ25
3EZ27	27	25.65	28.35	10	28	750	0.25	0.5	20.6	3EZ27
3EZ28	28	26.6	29.4	12	27	750	0.25	0.5	21.3	3EZ28
3EZ30	30	28.5	31.5	16	25	1000	0.25	0.5	22.5	3EZ30
3EZ33	33	31.35	34.65	20	23	1000	0.25	0.5	25.1	3EZ33
3EZ36	36	34.2	37.8	22	21	1000	0.25	0.5	27.4	3EZ36
3EZ39	39	37.05	40.95	28	19	1000	0.25	0.5	29.7	3EZ39
3EZ43	43	40.85	45.15	33	17	1500	0.25	0.5	32.7	3EZ43
3EZ47	47	44.65	49.35	38	16	1500	0.25	0.5	35.8	3EZ47
3EZ51	51	48.45	53.55	45	15	1500	0.25	0.5	38.8	3EZ51