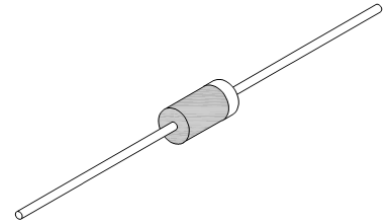


2W Zener Diodes

Features

- Low profile package
- Built-in strain relief
- Low inductance
- Complete voltage range 6.8 to 51V
- High temperature soldering guaranteed: 260°C/10 seconds at terminals
- RoHS compliant



DO-15



Mechanical Data

Case:	JEDEC DO-15, molded plastic over passivated junction
Epoxy:	Plastic package has UL flammability classification 94V-0
Terminals:	Solder plated, solderable per MIL-STD-750, Method 2026
Polarity:	Color band denotes cathode end
Weight:	0.015 ounce, 0.04 gram

Maximum Ratings ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	Value	Unit	Conditions
P_D	Peak Pulse Power Dissipation on TL=50°C Derate above 50°C	2	W	Note
I_{FSM}	Peak Forward Surge Current	15	A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)
T_J, T_{STG}	Operating Junction and Storage Temperature Range	-55 to 150	° C	

Note: Mounted on 5.0mm² (.013mm thick) land areas.

2W Zener Diodes

2EZ6.8B - 2EZ51B

Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Part NO.	Marking Code	Nominal Zener Voltage @ I _{ZT}				Max. Zener Impedance (Ω)			Max. Reverse Leakage Current I _R @ V _R	
		V _Z (V)			I _{ZT} (mA)	Z _{ZT} @ I _{ZT}	Z _{ZK} @ I _{ZK}	I _{ZK} (mA)	I _R (μ A)	V _R (V)
		Nom.	Min.	Max.						
2EZ6.8B	2EZ6.8	6.8	6.46	7.14	73.5	2	700	1.00	5.0	4.0
2EZ7.5B	2EZ7.5	7.5	7.13	7.88	66.5	2	700	0.50	5.0	5.0
2EZ8.2B	2EZ8.2	8.2	7.79	8.61	61.0	2	700	0.50	5.0	6.0
2EZ8.7B	2EZ8.7	8.7	8.27	9.14	58.0	2	700	0.50	4.0	6.6
2EZ9.1B	2EZ9.1	9.1	8.65	9.56	55.0	3	700	0.50	3.0	7.0
2EZ10B	2EZ10	10	9.50	10.50	50.0	4	700	0.25	3.0	7.6
2EZ11B	2EZ11	11	10.45	11.55	45.5	4	700	0.25	1.0	8.4
2EZ12B	2EZ12	12	11.40	12.60	41.5	5	700	0.25	1.0	9.1
2EZ13B	2EZ13	13	12.35	13.65	38.5	5	700	0.25	0.5	9.9
2EZ14B	2EZ14	14	13.30	14.70	35.7	6	700	0.25	0.5	10.6
2EZ15B	2EZ15	15	14.25	15.75	33.4	7	700	0.25	0.5	11.4
2EZ16B	2EZ16	16	15.20	16.80	31.2	8	700	0.25	0.5	12.2
2EZ17B	2EZ17	17	16.15	17.85	29.4	9	750	0.25	0.5	13.0
2EZ18B	2EZ18	18	17.10	18.90	27.8	10	750	0.25	0.5	13.7
2EZ19B	2EZ19	19	18.05	19.95	26.3	11	750	0.25	0.5	14.4
2EZ20B	2EZ20	20	19.00	21.00	25.0	11	750	0.25	0.5	15.2
2EZ22B	2EZ22	22	20.90	23.10	22.8	12	750	0.25	0.5	16.7
2EZ24B	2EZ24	24	22.80	25.20	20.8	13	750	0.25	0.5	18.2
2EZ25B	2EZ25	25	23.75	26.25	20.0	14	750	0.25	0.5	19.0
2EZ27B	2EZ27	27	25.65	28.35	18.5	18	750	0.25	0.5	20.6
2EZ28B	2EZ28	28	26.60	29.40	17.0	18	750	0.25	0.5	21.3
2EZ30B	2EZ30	30	28.50	31.50	16.6	20	1000	0.25	0.5	22.5
2EZ33B	2EZ33	33	31.35	34.65	15.1	23	1000	0.25	0.5	25.1
2EZ36B	2EZ36	36	34.20	37.80	13.9	25	1000	0.25	0.5	27.4
2EZ39B	2EZ39	39	37.05	40.95	12.8	30	1000	0.25	0.5	29.7
2EZ43B	2EZ43	43	40.85	45.15	11.6	35	1500	0.25	0.5	32.7
2EZ47B	2EZ47	47	44.65	49.35	10.6	40	1500	0.25	0.5	35.8
2EZ51B	2EZ51	51	48.45	53.55	9.8	48	1500	0.25	0.5	38.8

Note: Suffix "B" indicates $\pm 5\%$ tolerance.

2W Zener Diodes

2EZ6.8B - 2EZ51B

Typical Characteristics Curves

Fig - Power Temperature Derating Curve

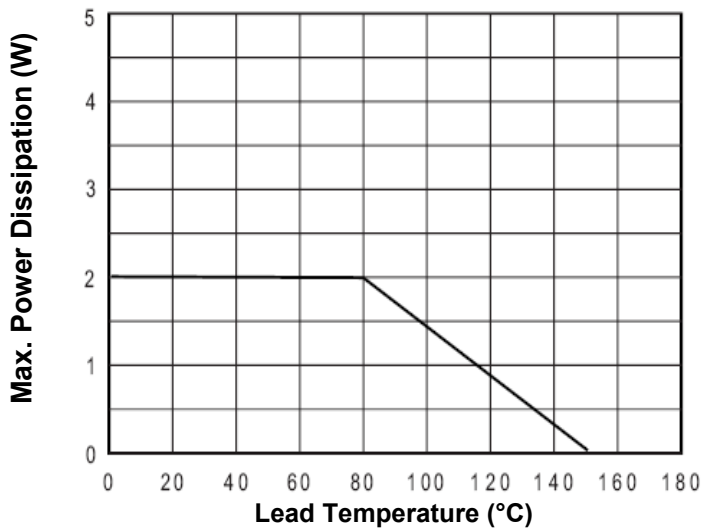
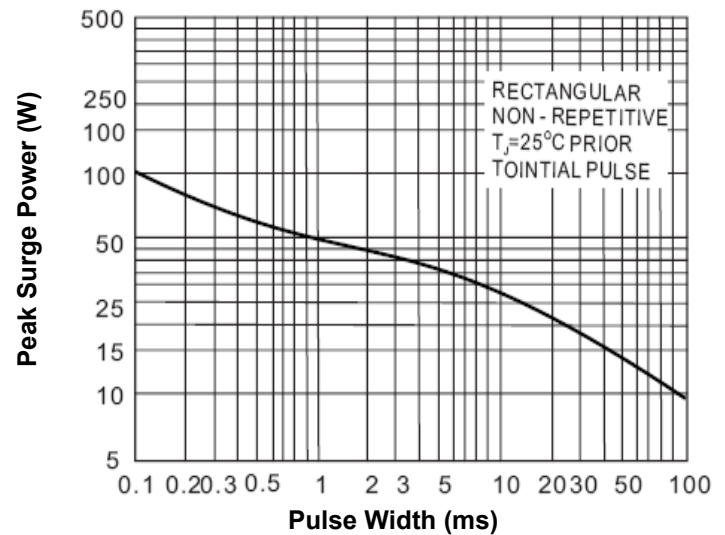
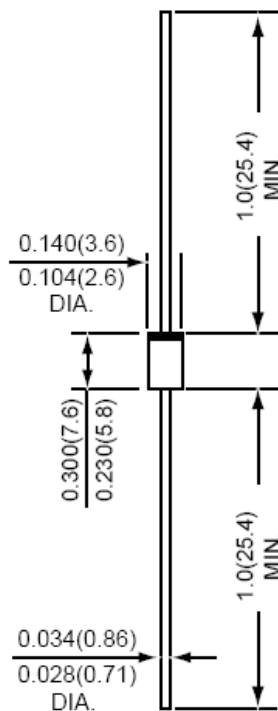


Fig.1-Max.Surge Power



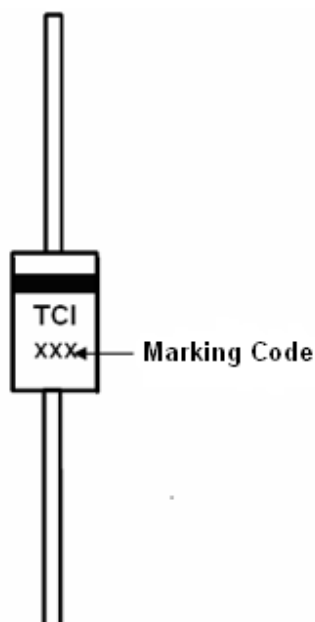
Dimensions in inches (mm)



DO-15

TAITRON
components incorporated

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