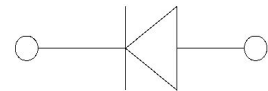
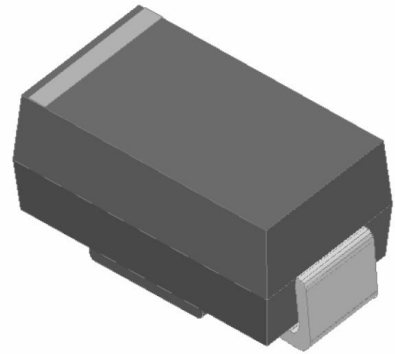


### ■ Features

- Low inductance.
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0 .
- High temperature soldering guaranteed 260°C /10 Seconds, At terminals
- Lead free in compliance with EU RoHS.



### ■ Mechanical data

- Epoxy:UL94V-0 rated flame retardant
- Case : Molded plastic, DO-214AA / SMB
- Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity : Indicated by cathode band
- Weight : 0.093 grams(approx)

### ■ Maximum ratings and electrical characteristics

Rating at 25 °C ambient temperature unless otherwise specified.

Parameter	Symbol	Value	Units
Power Dissipation at $T_L = 75^\circ\text{C}$ (Note 1 )	$P_D$	2.0	W
Operating and Storage Temperature Range	$T_J, T_{STG}$	-55 to +150	$^\circ\text{C}$

Note : 1.Mounted on 5.0 x 5.0mm (.013mm thick) and areas.

# Z2E6.8B SERIES



## ■Electrical characteristics

P/N	Marking Code	Nominal Zener Voltage					Max. Zener Impedance		Max. Reverse Leakage Current	
		$V_z @ I_{zT}$			$V_{zT} @ I_{zT}$	$I_{zT}$	$V_{zK} @ I_{zK}$	$I_{zK}$	IR @ VR	
		Min. V	Nom. V	Max. V	( $\Omega$ )	(mA)	( $\Omega$ )	(mA)	( $\mu$ A)	(V)
Z2E6.8B	2006	6.46	6.8	7.14	2	73.5	700	1	5	4
Z2E7.5B	2007	7.13	7.5	7.88	2	66.5	700	0.5	5	5
Z2E8.2B	2008	7.79	8.2	8.61	2	61	700	0.5	5	6
Z2E8.7B	20A8	8.27	8.7	9.14	2	58	700	0.5	4	6.6
Z2E9.1B	2009	8.65	9.1	9.56	3	55	700	0.5	3	7
Z2E10B	2010	9.5	10	10.5	4	50	700	0.25	3	7.6
Z2E11B	2011	10.45	11	11.55	4	45.5	700	0.25	1	8.4
Z2E12B	2012	11.4	12	12.6	5	41.5	700	0.25	1	9.1
Z2E13B	2013	12.35	13	13.65	5	38.5	700	0.25	0.5	9.9
Z2E14B	2014	13.3	14	14.7	6	35.7	700	0.25	0.5	10.6
Z2E15B	2015	14.25	15	15.75	7	33.4	700	0.25	0.5	11.4
Z2E16B	2016	15.2	16	16.8	8	31.2	700	0.25	0.5	12.2
Z2E17B	2017	16.15	17	17.85	9	29.4	750	0.25	0.5	13
Z2E18B	2018	17.1	18	18.9	10	27.8	750	0.25	0.5	13.7
Z2E19B	2019	18.05	19	19.95	11	26.3	750	0.25	0.5	14.4
Z2E20B	2020	19	20	21	11	25	750	0.25	0.5	15.2
Z2E22B	2022	20.9	22	23.1	12	22.8	750	0.25	0.5	16.7
Z2E24B	2024	22.8	24	25.2	13	20.8	750	0.25	0.5	18.2
Z2E25B	2025	23.75	25	26.25	14	20	750	0.25	0.5	19
Z2E27B	2027	26.65	27	28.35	18	18.5	750	0.25	0.5	20.6
Z2E28B	2028	26.6	28	29.4	18	17	750	0.25	0.5	21.3
Z2E30B	2030	28.5	30	31.5	20	16.6	1000	0.25	0.5	22.5
Z2E33B	2033	31.35	33	34.65	23	15.1	1000	0.25	0.5	25.1
Z2E36B	2036	34.2	36	37.8	25	13.9	1000	0.25	0.5	27.4
Z2E39B	2039	37.05	39	40.95	30	12.8	1000	0.25	0.5	29.7
Z2E43B	2043	40.85	43	45.45	35	11.6	1500	0.25	0.5	32.7
Z2E47B	2047	44.65	47	49.35	40	10.6	1500	0.25	0.5	35.8
Z2E51B	2051	48.45	51	53.55	48	9.8	1500	0.25	0.5	38.8

Rating and characteristic curves

Fig. 1-TYPICAL THERMAL RESPONSE

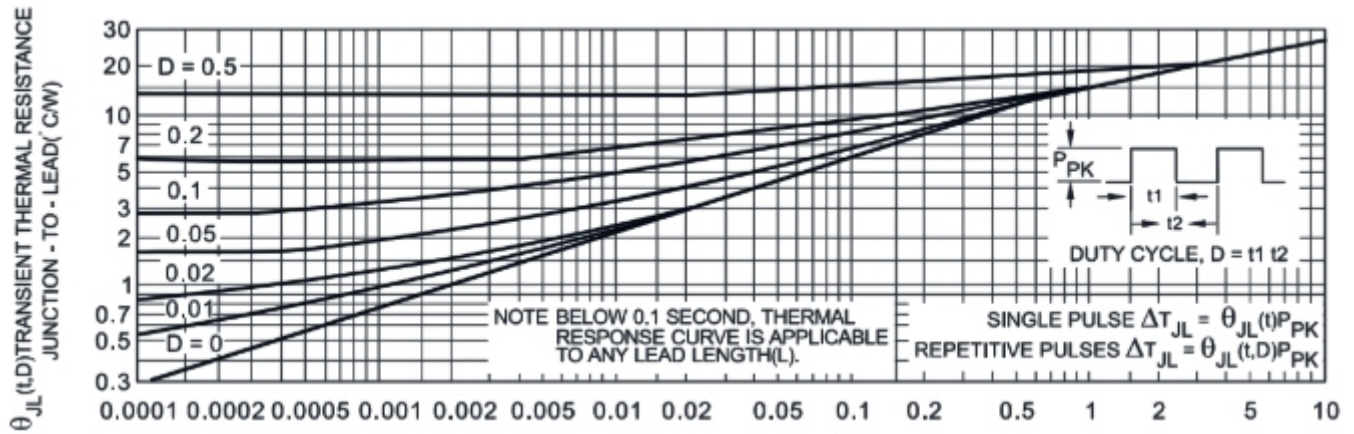


Fig. 3-TYPICAL REVERSE LEAKAGE

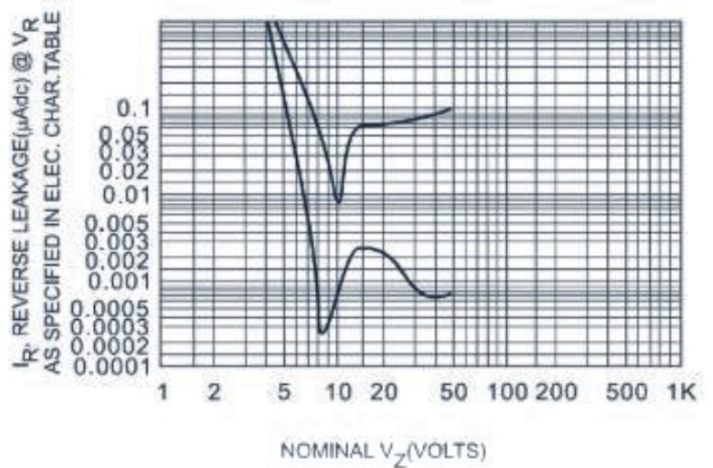


Fig. 8-TYPICAL THERMAL RESISTANCE

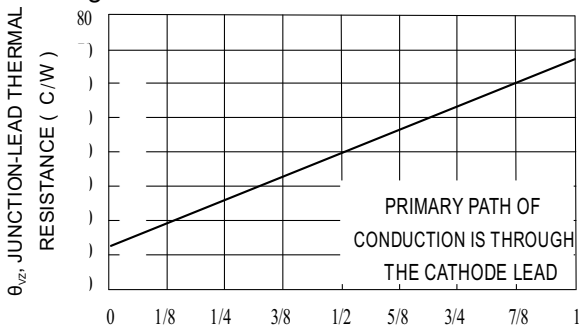


Fig. 4-UNITS TO 12 VOLTS

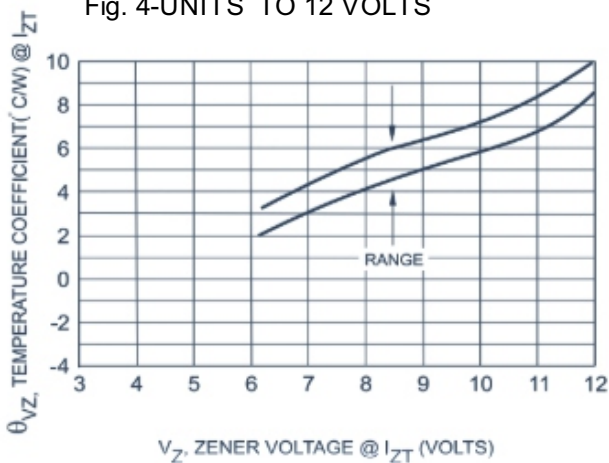
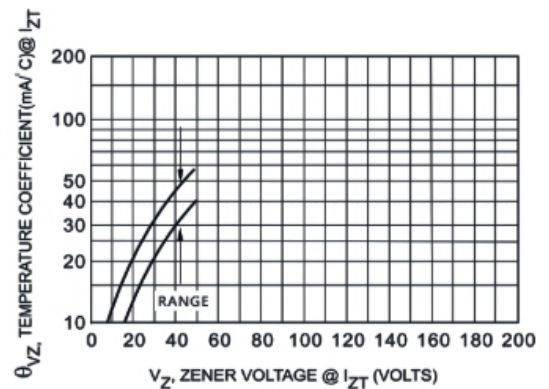


Fig. 5-UNITS 10 TO 50 VOLTS

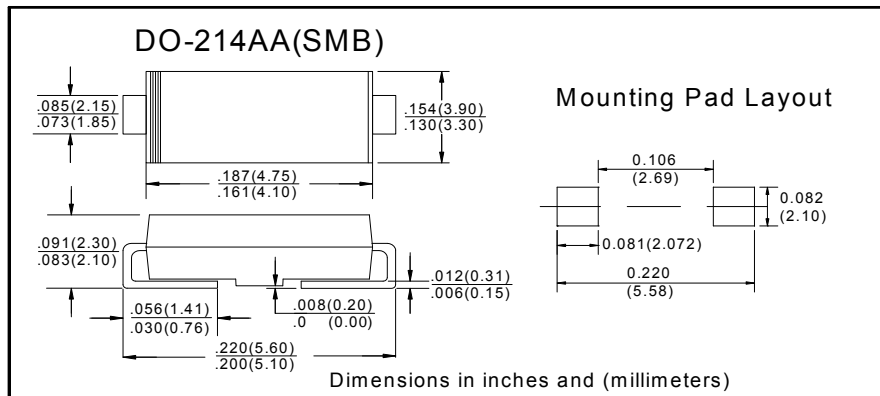


# Z2E6.8B SERIES

## ■ Ordering Information (Example)

PREFERED	PACKAGE CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
Z2E Series	SMB	3000	6000	48000	13" reel

## ■ Outline Dimensions



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