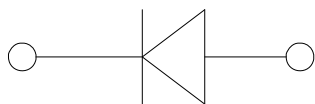
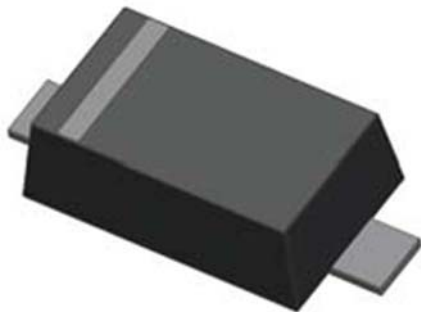


Zener Diodes



Features

- Moisture sensitivity level 1
- Zener voltage 1.8V~39V

Application

- Linear voltage regulator
- DC regulator
- Small-signal surge protection

Mechanical data

- **Package:** SOD-523
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102

■ Maximum Ratings ($T_a=25^{\circ}\text{C}$ Unless otherwise specified)

Parameter	Symbol	Unit	Value
Forward voltage @ $I_F=10\text{mA}$	V_F	V	0.95
Power dissipation	P_D	mW	200
Maximum regulator current	I_{ZM}	mA	P_D / V_Z
Junction temperature	T_J	$^{\circ}\text{C}$	-55 to +150
Storage temperature	T_{STG}	$^{\circ}\text{C}$	-55 to +150



BZX58550-C1V8 THRU BZX58550-C39

■ Electrical Characteristics (T_a=25°C Unless otherwise specified)

Type Number	Device Marking	V _Z @ I _{ZT} (V)				I _R (μA)@V _R	
		Min	Typ	Max	I _{ZT} (μA)	I _R (μA)	V _R (V)
BZX58550-C1V8	1C	1.71	1.8	1.89	50	7.5	1
BZX58550-C2V0	1E	1.90	2.0	2.10	50	5	1
BZX58550-C2V2	1F	2.09	2.2	2.31	50	4	1
BZX58550-C2V4	1H	2.28	2.4	2.52	50	2	1
BZX58550-C2V7	1K	2.565	2.7	2.835	50	1	1
BZX58550-C3V0	1L	2.85	3.0	3.15	50	0.8	1
BZX58550-C3V3	1N	3.135	3.3	3.465	50	7.5	1.5
BZX58550-C3V6	1S	3.42	3.6	3.78	50	7.5	2.0
BZX58550-C3V9	1T	3.705	3.9	4.095	50	5.0	2.0
BZX58550-C4V3	1U	4.085	4.3	4.515	50	4.0	2.0
BZX58550-C4V7	1X	4.465	4.7	4.935	50	10	3.0
BZX58550-C5V1	1Y	4.845	5.1	5.355	50	10	3.0
BZX58550-C5V6	1Z	5.32	5.6	5.88	50	10	4.0
BZX58550-C6V2	2C	5.89	6.2	6.51	50	10	5.0
BZX58550-C6V8	2E	6.46	6.8	7.14	50	10	5.1
BZX58550-C7V5	2F	7.125	7.5	7.875	50	10	5.7
BZX58550-C8V2	2H	7.79	8.2	8.61	50	1	6.2
BZX58550-C8V7	2G	8.265	8.7	9.135	50	1	6.6
BZX58550-C9V1	2K	8.645	9.1	9.555	50	1	6.9
BZX58550-C10	2L	9.50	10	10.5	50	1	7.6
BZX58550-C11	2N	10.45	11	11.55	50	0.05	8.4
BZX58550-C12	2S	11.40	12	12.6	50	0.05	9.1
BZX58550-C13	2T	12.35	13	13.65	50	0.05	9.8
BZX58550-C14	2V	13.30	14	14.7	50	0.05	10.6
BZX58550-C15	2U	14.25	15	15.75	50	0.05	11.4



BZX58550-C1V8 THRU BZX58550-C39

BZX58550-C16	2X	15.20	16	16.8	50	0.05	12.1
BZX58550-C17	2Z	16.15	17	17.85	50	0.05	12.9
BZX58550-C18	2Y	17.10	18	18.9	50	0.05	13.6
BZX58550-C19	2W	18.05	19	19.95	50	0.05	14.4
BZX58550-C20	3C	19.00	20	21	50	0.01	15.2
BZX58550-C22	3E	20.9	22	23.1	50	0.01	16.7
BZX58550-C24	3F	22.8	24	25.2	50	0.01	18.2
BZX58550-C25	3G	23.75	25	26.25	50	0.01	19.0
BZX58550-C27	3H	25.65	27	28.35	50	0.01	20.4
BZX58550-C28	3J	26.6	28	29.4	50	0.01	21.2
BZX58550-C30	3K	28.5	30	31.5	50	0.01	22.8
BZX58550-C33	3L	31.35	33	34.65	50	0.01	25
BZX58550-C36	3N	34.2	36	37.8	50	0.01	27.3
BZX58550-C39	3S	37.05	39	40.95	50	0.01	29.6

■ Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BZX58550-C1V8 THRU BZX58550-C39	F2	Approximate 0.011	3000	30000	120000	7" reel

■ Thermal Characteristics

Parameter	Symbol	Unit	Value
Thermal resistance, junction-to-ambient	R _{θJ-A} ⁽¹⁾	°C/W	625
Thermal resistance, junction-to-case	R _{θJ-C} ⁽¹⁾	°C/W	500

Note:

(1) Thermal resistance from junction to ambient and from junction to case mounted on P.C.B. with 8mm*9mm copper pad areas

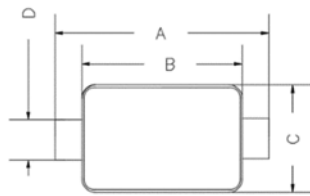


BZX58550-C1V8 THRU BZX58550-C39

■ Ordering Information

Preferred P/N	Packing code	Unit weight(g)	Minimum package(pcs)	Inner box quantity(pcs)	Outer carton quantity(pcs)	Delivery mode
BZX58550-C1V8 THRU BZX58550-C39	F2	Approximate 0.002	8000	80000	320000	7" reel
BZX58550-C1V8 THRU BZX58550-C39	F3	Approximate 0.002	3000	30000	120000	7" reel

■ Outline Dimensions



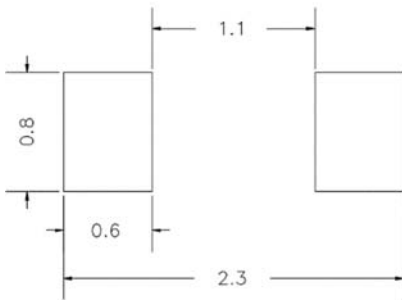
TOP VIEW



SIDE VIEW

DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.059	0.067	1.500	1.700
B	0.043	0.051	1.100	1.300
C	0.028	0.035	0.700	0.900
D	0.010	0.014	0.250	0.350
E	0.002	0.008	0.050	0.200
F	0.020	0.028	0.500	0.700

■ Suggested Pad Layout



UNIT: mm



BZX58550-C1V8 THRU BZX58550-C39

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