

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Forward Voltage (I _F =10mA)	V _F	0.9	V
Power Dissipation	P _D	200	mW
Typical Thermal Resistance Junction to Ambient	R _{θJA}	833	°C/W
Junction and Storage Temperature Range	T _j , T _{stg}	-55~150	°C

/ Electrical Characteristics(Ta=25)

Type Number	Marking Code	Zener Voltage Range(Note 1)				Maximum Zener Impedance			Maximum Reverse Current	
		V _Z @I _{ZT}			I _{ZT}	Z _{ZT} @I _{ZT}	Z _{ZK} @I _{ZK}	I _{ZK}	I _R @V _R	V _R
		Min (V)	Nom (V)	Max (V)	(mA)	Max (Ω)		(mA)	Max (μA)	(V)
BZX584C2V4	Z7	2.3	2.4	2.5	5	100	1000	1	120	1
BZX584C2V7	A8	2.6	2.7	2.8	5	100	1000	1	120	1
BZX584C3V0	B8	2.9	3	3.2	5	100	1000	1	50	1
BZX584C3V3	C8	3.1	3.3	3.5	5	95	1000	1	20	1
BZX584C3V6	D8	3.4	3.6	3.8	5	90	1000	1	10	1
BZX584C3V9	E8	3.7	3.9	4.1	5	90	1000	1	5	1
BZX584C4V3	F8	4.1	4.3	4.5	5	90	1000	1	5	1
BZX584C4V7	G8	4.5	4.7	4.9	5	80	800	1	2	1
BZX584C5V1	H8	4.8	5.1	5.4	5	60	500	1	2	1.5
BZX584C5V6	I8	5.3	5.6	5.9	5	40	200	1	1	2.5
BZX584C6V2	J8	5.9	6.2	6.5	5	10	100	1	1	3
BZX584C6V8	K8	6.5	6.8	7.1	5	15	160	1	0.5	3.5
BZX584C7V5	L8	7.1	7.5	7.9	5	15	160	1	0.5	4
BZX584C8V2	M8	7.8	8.2	8.6	5	15	160	1	0.5	5
BZX584C9V1	N8	8.6	9.1	9.6	5	15	160	1	0.5	6
BZX584C10	O8	9.5	10	10.5	5	20	160	1	0.1	7

/ Electrical Characteristics(Ta=25)

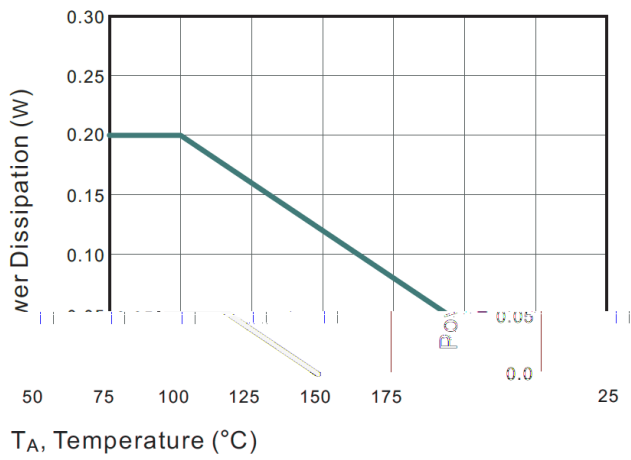
Type Number	Marking Code	Zener Voltage Range(Note 1)				Maximum Zener Impedance			Maximum Reverse Current	
		V _z @I _{zT}			I _{zT}	Z _{zT} @I _{zT}	Z _{zK} @I _{zK}	I _{zK}	I _R @V _R	V _R
		Min (V)	Nom (V)	Max (V)	(mA)	Max (Ω)		(mA)	Max (μA)	(V)
BZX584C11	P8	10.5	11	11.6	5	20	160	1	0.1	8
BZX584C12	Q8	11.4	12	12.6	5	25	80	1	0.1	9
BZX584C13	R8	12.6	13.25	13.9	5	30	80	1	0.1	10
BZX584C15	S8	14.3	15	15.8	5	30	80	1	0.1	11
BZX584C16	T8	15.4	16.2	17.0	2	40	80	1	0.1	12
BZX584C18	U8	17.1	18	18.9	2	45	80	1	0.1	13
BZX584C20	V8	19.0	20	21.0	2	55	100	1	0.1	15
BZX584C22	W8	20.9	22	23.1	2	55	100	1	0.1	17
BZX584C24	X8	23.0	24.2	25.4	2	70	120	1	0.1	19
BZX584C27	Y8	25.7	27	28.4	2	80	300	1	0.1	21
BZX584C30	Z8	28.5	30	31.5	2	80	300	1	0.1	23
BZX584C33	A9	31.4	33	34.7	2	80	300	1	0.1	25
BZX584C36	B9	34.2	36	37.8	2	90	500	1	0.1	27
BZX584C39	C9	37.1	39	41.0	2	130	500	1	2	30

Notes:

- (1) V_{zT} is tested with pulses (20 ms)
- (2) C:±5%

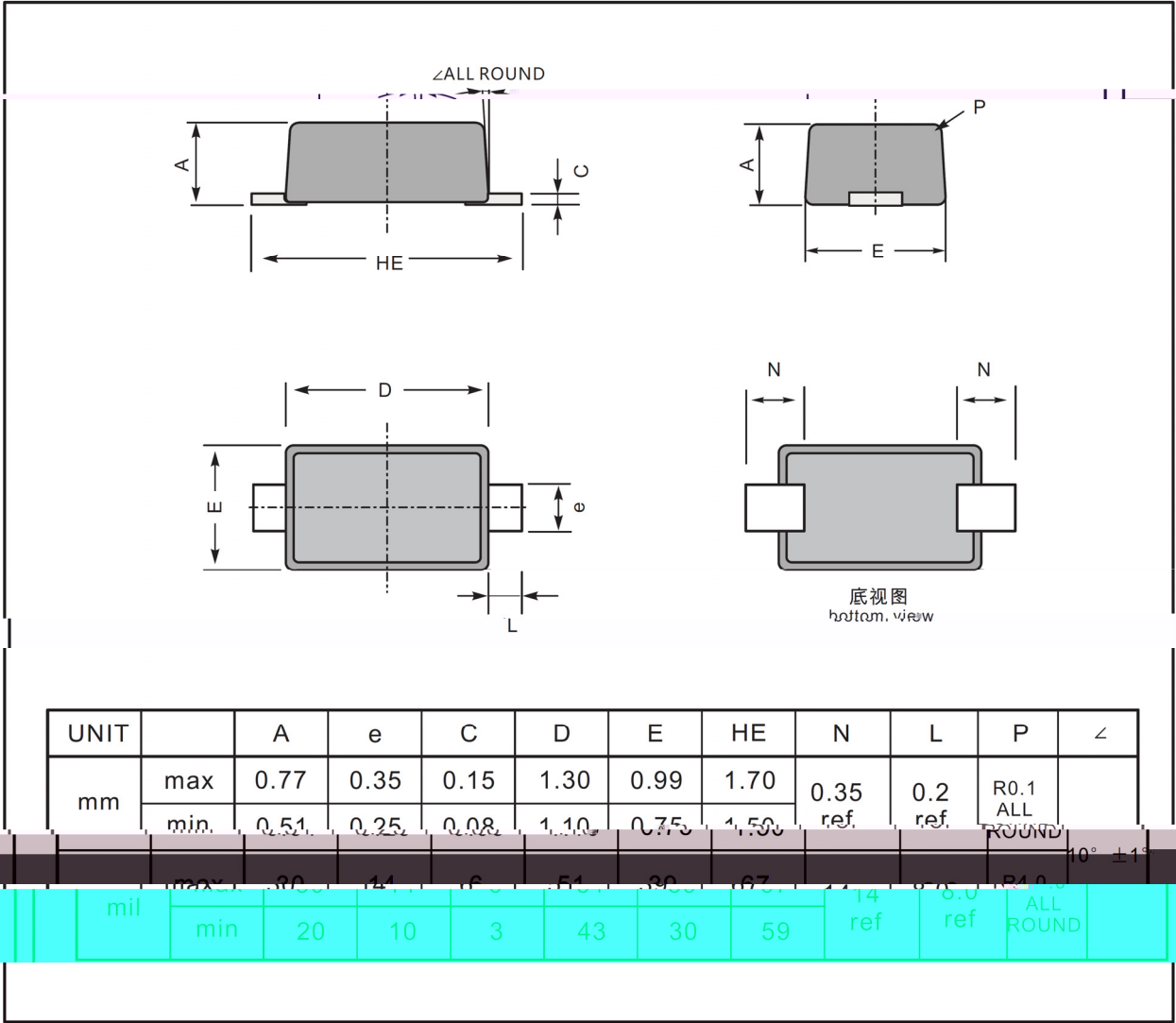
/ Electrical Characteristic Curve

Fig.1 Maximum Continuous Power Derating

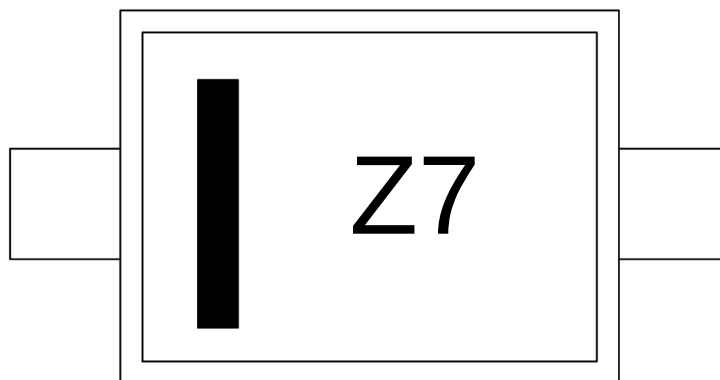


/ Package Dimensions

SOD-523



/ Marking Instructions

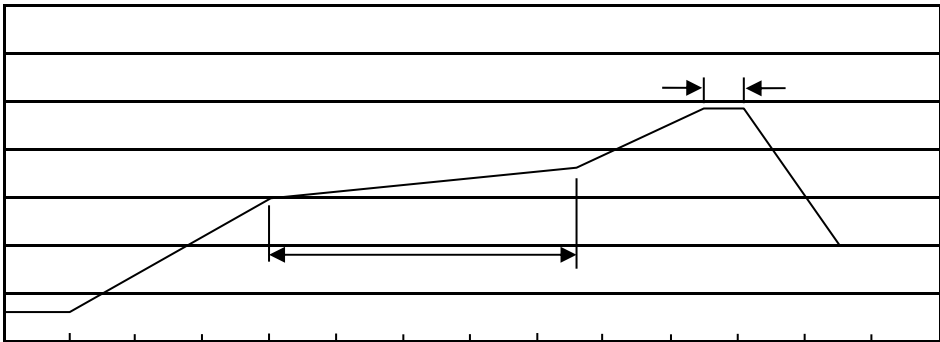


Z7

Note:

Z7: Product Type Code

() / Temperature Profile for IR Reflow Soldering(Pb-Free)



- Note:
- 1

150 180 60 90sec;

1.Preheating:150~180 , Time:60~90sec.
- 2

245±5 5±0.5sec;

2.Peak Temp.:245±5 , Duration:5±0.5sec.
- 3

2 10 /sec.

3. Cooling Speed: 2~10 /sec.

/ Resistance to Soldering Heat Test Conditions

260±5 10±1 sec. Temp.:260±5 Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	Units/Reel /	Reels/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Reel	Inner Box	Outer Box
SOD-523	3,000	10	30,000	6	180,000	7" ×8	180×120×180	390×385×205

/ Notices