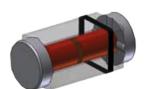


RoHS

Compliant



Features:

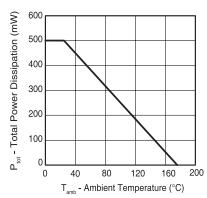
- Zener voltage range 2 to 75 Volts.
- · Mini-MELF package.
- Surface device type mounting.
- · Hermetically sealed glass.
- · Compression Bonded Construction.
- All external surfaces are corrosion resistant and terminals are readily solderable.
- · Matte Tin (Sn) lead finish.
- · Blue color band indicates negative polarity.

Maximum Ratings and Electrical Characteristics

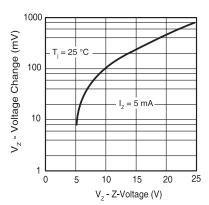
Type Number	Symbol	Value	Units	
Power Dissipation	P _D 500		mW	
Operating and Storage Temperature Range	TJ, Tsтg	-65 to + 200	°C	

Notes: These ratings are limiting values above which the serviceability of the diode may be impaired.

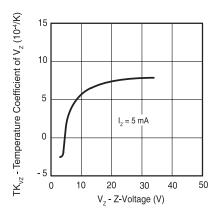
Ratings and Characteristic Curves



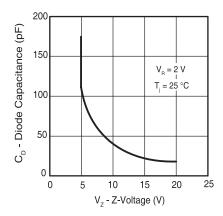
Total Power Dissipation vs. Ambient Temperature



Typical Change of Working Voltage under Operating Conditions at T_{amb} =25°C



Temperature Coefficient of Vz vs. Z-Voltage

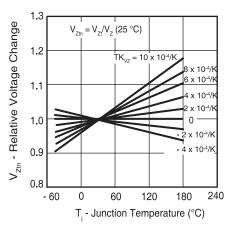


Diode Capacitance vs. Z-Voltage

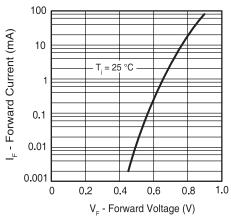




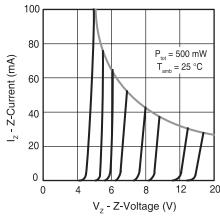




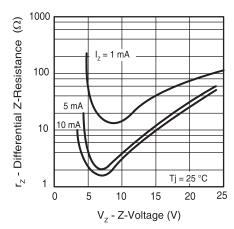
Typical Change of Working Voltage vs. Junction Temperature



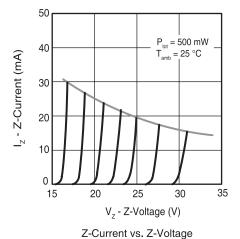
Forward Current vs. Forward Voltage



Z-Current vs. Z-Voltage



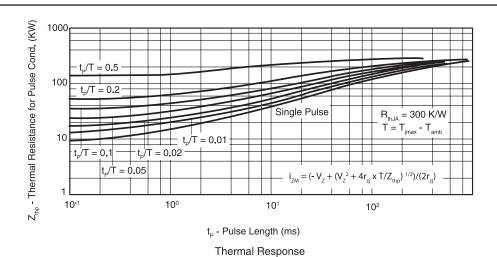
Differential Z-Resistance vs. Z-Voltage











Electrical Characteristics (TA=25°C unless otherwise noted)

	Vz at Izτ (Volts)	IZT Ω	Z zт at I zт	IZK m A	Zzк at lzк Ohms	IR at VR μΑ Maximum	Vr V	Part Number
Vz Minimum (V)	Vz Maximum (V)		Ω Maximum					
9.4	10.6	5	15	1	70	0.1	7.5	BZT55C10
10.4	11.6	5	20	1	70	0.1	8.2	BZT55C11
11.4	12.7	5	20	1	90	0.1	9.1	BZT55C12
12.4	14.1	5	26	1	110	0.1	10	BZT55C13
13.8	15.6	5	30	1	110	0.1	11	BZT55C15
15.3	17.1	5	40	1	170	0.1	12	BZT55C16
16.8	19.1	5	50	1	170	0.1	13	BZT55C18
18.8	21.1	5	55	1	220	0.1	15	BZT55C20
20.8	23.3	5	55	1	220	0.1	16	BZT55C22
22.8	25.6	5	80	1	220	0.1	18	BZT55C24
25.1	28.9	2	80	1	220	0.1	20	BZT55C27
1.88	2.11	5	100	1	600	50	1	BZT55C2V0
2.08	2.33	5	100	1	600	50	1	BZT55C2V2
2.28	2.56	5	85	1	600	50	1	BZT55C2V4
2.51	2.89	5	85	1	600	10	1	BZT55C2V7
28	32	2	80	1	220	0.1	22	BZT55C30
31	35	2	80	1	220	0.1	24	BZT55C33
34	38	2	80	1	220	0.1	27	BZT55C36
37	41	2	90	0.5	500	0.1	28	BZT55C39
2.8	3.2	5	85	1	600	4	1	BZT55C3V0
3.1	3.5	5	85	1	600	2	1	BZT55C3V3
3.4	3.8	5	85	1	600	2	1	BZT55C3V6

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	Vz at Izτ (Volts)		Zzt at Izt	l	7	Ir at Vr	V-	
Vz Minimum (V)	Vz Maximum (V)	lzτ m A	Ω Maximum	lzĸ mA	Zzk at Izk Ohms	μA Maximum	Vr V	Part Number
3.7	4.1	5	85	1	600	2	1	BZT55C3V9
40	46	2	90	0.5	600	0.1	35	BZT55C43
44	50	2	110	0.5	700	0.1	35	BZT55C47
4.0	4.6	5	75	1	600	2	1	BZT55C4V3
4.4	5	5	60	1	600	0.5	1	BZT55C4V7
48	54	2	125	0.5	700	0.1	38	BZT55C51
52	60	2	135	0.5	1,000	0.1	42	BZT55C56
4.8	5.4	5	35	1	550	0.1	1	BZT55C5V1
5.2	6.0	5	25	1	450	0.1	1	BZT55C5V6
58	66	2.5	150	0.5	1,000	0.1	47	BZT55C62
64	72	2.5	160	0.5	1,000	0.1	51	BZT55C68
5.8	6.6	5	10	1	200	0.1	2	BZT55C6V2
6.4	7.2	5	8	1	150	0.1	3	BZT55C6V8
70	80	2.5	170	0.5	1,000	0.1	56	BZT55C75
7.0	7.9	5	7	1	50	0.1	5	BZT55C7V5
7.7	8.7	5	7	1	50	0.1	6.2	BZT55C8V2
8.5	9.6	5	10	1	50	0.1	6.8	BZT55C9V1

VF Forward Voltage = 1V Maximum at I_F = 100mA for all types.

Notes: 1. The type numbers listed have zener voltage min/max limits as shown.

2. The zener impedance is derived from the 60-cycle ac voltage, which results when an ac current having an rams value equal to 10% of the dc zener current (Izτ or Izκ) is superimposed to Izτ or Izκ.

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