

**BZV55C/ZMM55C-SERIES**  
**ZENER DIODES**

Zener Voltage: 2.4-180V Peak Pulse Power: 500mW

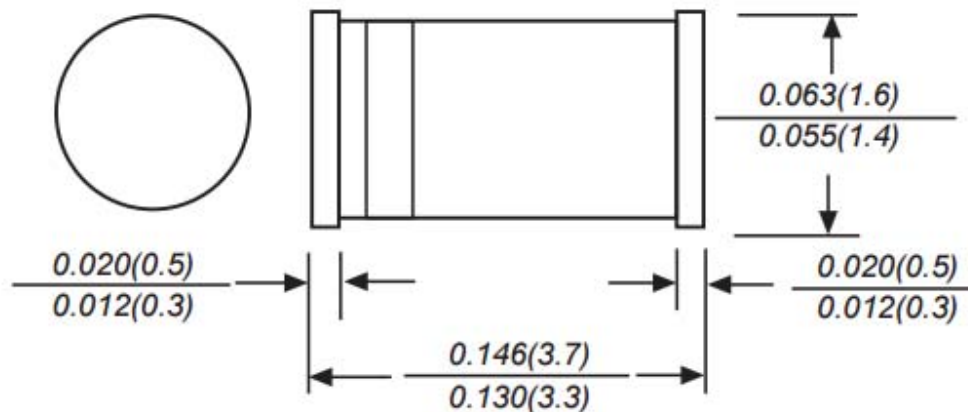
**Features:**

- Low zener impedance
- Low regulation factor
- Glass passivated junction
- High temperature soldering guaranteed: 260°C/10S at terminals

**Mechanical Data:**

- Case: MINI MELF/DL-35 molded glass body
- Terminals: Plated leads, solderable per MIL-STD 750, method 2026
- Polarity: Color band denotes cathode end Mounting
- Position: Any Weight: 0.002 ounce, 0.05 gram

**Mechanical Dimensions: In mm/Inches**



**MINI MELF/DL-35**



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Technical Data  
Data Sheet N0200, Rev. A

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### Ordering Information:

Device	Package	Shipping
BZV55C/ZMM55C-SERIES	MELF/ DL-35 (Pb-Free)	2500pcs / reel

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

### Maximum Ratings @ $T_A=25^{\circ}\text{C}$ unless otherwise specified

Parameter	Symbol	Value	Unit
Zener Current see Table Characteristics			
Power Dissipation at $T_{amb}=25^{\circ}\text{C}$ (Note1)	$P_D$	500	mW
Operating Junction Temperature	$T_J$	200	$^{\circ}\text{C}$
Storage Temperature Range	$T_{STG}$	-65 to 200	$^{\circ}\text{C}$
Typical Thermal resistance junction to Ambient(Note 1)	$R_{\theta JA}$	0.3	K/mW
Forward Voltage @ $I_F = 100\text{mA}$	$V_F$	1.0	V

Notes: 1. Valid provided that device terminals are kept at ambient temperature.

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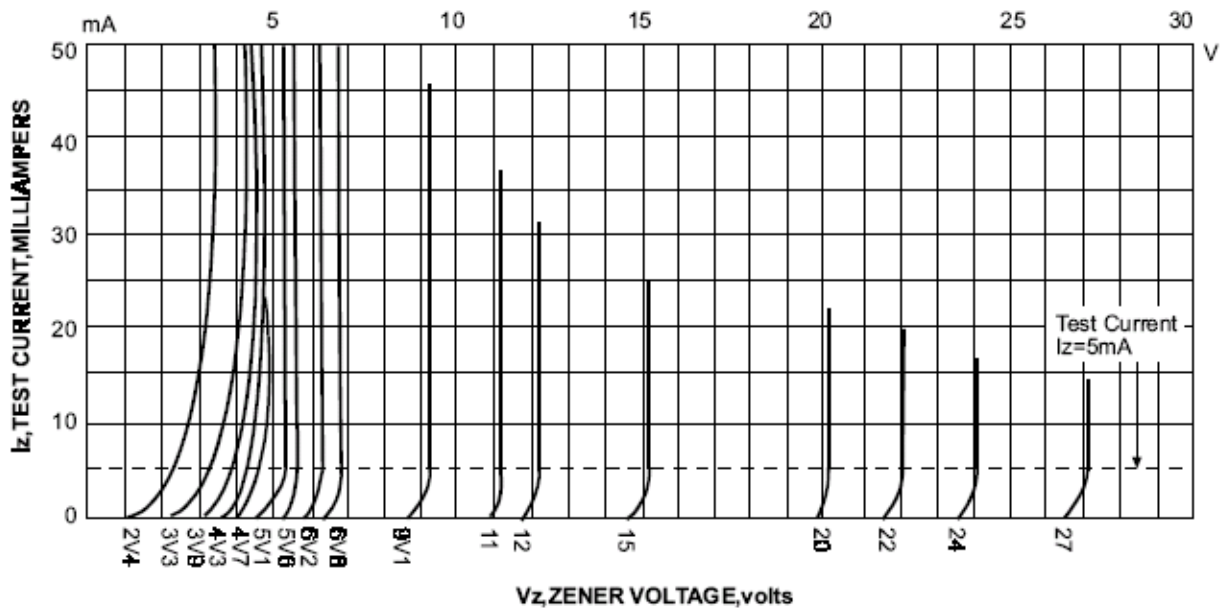
### ELECTRICAL CHARACTERISTICS (at TA=25°C unless otherwise noted)

Device Type	Nominal Zener Voltage Vz@IzT		Test Current IzT mA	Maximum Zener Impedance			Maximum Reverse Leakage Current		Typical Temperature Coefficient (%/°C)	Maximum Regulator Current IzM mA
	Min	Max		ZzT@IzT	Zzk@Izk	Izk	IR	@VR Volts		
				Ohms	Ohms	mA				
BZV/ZMM55C2V4	2.28	2.56	5.0	85	600	1.0	50	1.0	-0.085	155
BZV/ZMM55C2V7	2.5	2.9	5.0	85	600	1.0	10	1.0	-0.080	135
BZV/ZMM55C3V0	2.8	3.2	5.0	85	600	1.0	4.0	1.0	-0.075	125
BZV/ZMM55C3V3	3.1	3.5	5.0	85	600	1.0	2.0	1.0	-0.070	115
BZV/ZMM55C3V6	3.4	3.8	5.0	85	600	1.0	2.0	1.0	-0.065	105
BZV/ZMM55C3V9	3.7	4.1	5.0	85	600	1.0	2.0	1.0	-0.060	95
BZV/ZMM55C4C3	4.0	4.6	5.0	75	600	1.0	1.0	1.0	±0.055	90
BZV/ZMM55C4V7	4.4	5.0	5.0	60	600	1.0	0.5	1.0	±0.030	85
BZV/ZMM55C5V1	4.8	5.4	5.0	35	550	1.0	0.1	1.0	±0.030	80
BZV/ZMM55C5V6	5.2	6.0	5.0	25	450	1.0	0.1	1.0	+0.038	70
BZV/ZMM55C6V2	5.8	6.6	5.0	10	200	1.0	0.1	2.0	+0.045	64
BZV/ZMM55C6V8	6.4	7.2	5.0	8	150	1.0	0.1	3.0	+0.050	58
BZV/ZMM55C7V5	7.0	7.9	5.0	7	50	1.0	0.1	5.0	+0.058	53
BZV/ZMM55C8V2	7.7	8.7	5.0	7	50	1.0	0.1	6.2	+0.062	74
BZV/ZMM55C9V1	8.5	9.6	5.0	10	50	1.0	0.1	6.8	+0.068	43
BZV/ZMM55C10	9.4	10.6	5.0	15	70	1.0	0.1	7.5	+0.075	40
BZV/ZMM55C11	10.4	11.6	5.0	20	70	1.0	0.1	8.2	+0.076	36
BZV/ZMM55C12	11.4	12.7	5.0	20	90	1.0	0.1	9.1	+0.077	32
BZV/ZMM55C13	12.4	14.1	5.0	26	110	1.0	0.1	10	+0.079	29
BZV/ZMM55C15	13.8	15.6	5.0	30	110	1.0	0.1	11	+0.082	27
BZV/ZMM55C16	15.3	17.1	5.0	40	170	1.0	0.1	12	+0.083	24
BZV/ZMM55C18	16.8	19.1	5.0	50	170	1.0	0.1	13	+0.085	21
BZV/ZMM55C20	18.8	21.2	5.0	55	220	1.0	0.1	15	+0.086	20
BZV/ZMM55C22	20.8	23.3	5.0	55	220	1.0	0.1	16	+0.087	18
BZV/ZMM55C24	22.8	25.6	5.0	80	220	1.0	0.1	18	+0.088	16
BZV/ZMM55C27	25.1	28.9	5.0	80	220	1.0	0.1	20	+0.090	14
BZV/ZMM55C30	28	32	5.0	80	220	1.0	0.1	22	+0.091	13
BZV/ZMM55C33	31	35	5.0	80	220	1.0	0.1	24	+0.092	12
BZV/ZMM55C36	34	38	5.0	80	220	1.0	0.1	27	+0.093	11
BZV/ZMM55C39	37	41	2.5	90	500	0.5	0.1	30	+0.094	10
BZV/ZMM55C43	40	46	2.5	90	600	0.5	0.1	33	+0.095	9.2
BZV/ZMM55C47	44	50	2.5	110	700	0.5	0.1	36	+0.095	8.5
BZV/ZMM55C51	48	54	2.5	125	700	0.5	0.1	39	+0.096	7.8
BZV/ZMM55C56	52	60	2.5	135	1000	0.5	0.1	43	+0.096	7.0
BZV/ZMM55C62	58	66	2.5	150	1000	0.5	0.1	47	+0.096	6.4
BZV/ZMM55C68	64	72	2.5	200	1000	0.5	0.1	51	+0.096	5.9
BZV/ZMM55C75	70	80	2.5	250	1500	0.5	0.1	56	+0.096	5.3
BZV/ZMM55C82	77	87	2.5	300	2000	0.5	0.1	62	+0.096	4.8
BZV/ZMM55C91	85	96	1.0	450	5000	0.1	0.1	68	+0.096	4.4
BZV/ZMM55C100	94	106	1.0	450	5000	0.1	0.1	75	+0.096	4.0
BZV/ZMM55C110	104	116	1.0	600	5000	0.1	0.1	82	+0.096	3.6
BZV/ZMM55C120	114	127	1.0	800	5000	0.1	0.1	91	+0.096	3.3
BZV/ZMM55C130	124	141	1.0	1000	5000	0.1	0.1	100	+0.096	3.0
BZV/ZMM55C150	138	156	1.0	1200	5000	0.1	0.1	110	+0.096	2.6
BZV/ZMM55C160	153	171	1.0	1500	5000	0.1	0.1	120	+0.096	2.5
BZV/ZMM55C180	168	191	1.0	1800	5000	0.1	0.1	130	+0.096	2.2
BZV/ZMM55C188	188	212	1.0	2000	5000	0.1	0.1	150	+0.096	2.0

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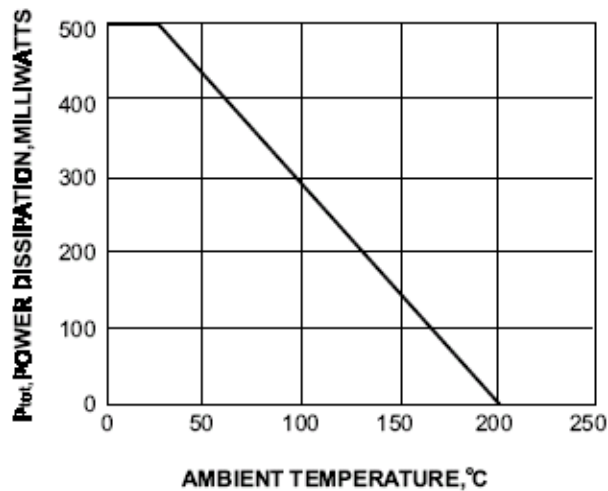
**RATINGS AND CHARACTERISTIC CURVES BZV/ZMM55-SERIES**

**Breakdown characteristics**



**Admissible power dissipation versus ambient temperature**

Valid provided that leads are kept at ambient temperature at a distance of 10mm from case





## BZV55C-SERIES

### Technical Data Data Sheet N0200, Rev. A

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