

# ZENER DIODES (SMD Type)



TYPE No.	Nominal Zener Voltage		Test Current	Max. Zener Impedance			Max. Reverse Leakage Current		Package Outline Drawing No. Please refer to Page: 131~139
	$V_Z @ I_{ZT}$			$I_{ZT}$	$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$	$I_{ZK}$	$I_R @ V_R$	
	Min.	Max.	mA	Ohms	Ohms	mA	$\mu A$	V	



## 200 mWatts

BZX584C2V4	2.2	2.6	5	100	600	1	50	1.0	SOD-523 (No.: 15)	
BZX584C2V7	2.5	2.9	5	100	600	1	20	1.0		
BZX584C3V0	2.8	3.2	5	95	600	1	10	1.0		
BZX584C3V3	3.1	3.5	5	95	600	1	5	1.0		
BZX584C3V6	3.4	3.8	5	90	600	1	5	1.0		
BZX584C3V9	3.7	4.1	5	90	600	1	3	1.0		
BZX584C4V3	4.0	4.6	5	90	600	1	3	1.0		
BZX584C4V7	4.4	5.0	5	80	500	1	3	2.0		
BZX584C5V1	4.8	5.4	5	60	480	1	2	2.0		
BZX584C5V6	5.2	6.0	5	40	400	1	1	2.0		
BZX584C6V2	5.8	6.6	5	10	150	1	3	4.0		
BZX584C6V8	6.4	7.2	5	15	80	1	2	4.0		
BZX584C7V5	7.0	7.9	5	15	80	1	1	5.0		
BZX584C8V2	7.7	8.7	5	15	80	1	0.7	5.0		
BZX584C9V1	8.5	9.6	5	15	100	1	0.5	6.0		
BZX584C10	9.4	10.6	5	20	150	1	0.2	7.0		
BZX584C11	10.4	11.6	5	20	150	1	0.1	8.0		
BZX584C12	11.4	12.7	5	25	150	1	0.1	8.0		
BZX584C13	12.4	14.1	5	30	170	1	0.1	8.0		
BZX584C15	13.6	15.6	5	30	200	1	0.1	10.5		
BZX584C16	15.3	17.1	5	40	200	1	0.1	11.2		
BZX584C18	16.8	19.1	5	45	225	1	0.1	12.6		
BZX584C20	18.8	21.2	5	55	225	1	0.1	14.0		
BZX584C22	20.8	23.3	5	55	250	1	0.1	15.4		
BZX584C24	22.8	25.6	5	70	250	1	0.1	16.8		
BZX584C27	25.1	28.9	2	80	300	0.5	0.1	18.9		
BZX584C30	28.0	32.0	2	80	300	0.5	0.1	21.0		
BZX584C33	31.0	35.0	2	80	325	0.5	0.1	23.1		
BZX584C36	34.0	38.0	2	90	350	0.5	0.1	25.2		
BZX584C39	37.0	41.0	2	130	350	0.5	0.1	27.3		
BZX584C43	40.0	46.0	2	150	375	0.5	0.1	30.1		
BZX584C47	44.0	50.0	2	170	375	0.5	0.1	32.9		
BZX584C51	48.0	54.0	2	180	400	0.5	0.1	38.0		

NOTE: Normal Tolerance  $\pm 5\%$

TYPE No.	Nominal Zener Voltage		Test Current	Max. Zener Impedance			Max. Reverse Leakage Current		[ Package Outline Drawing No. Please refer to Page: 131~139 ]
	$V_Z @ I_{ZT}$			$I_{ZT}$	$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$	$I_{ZK}$	$I_R @ V_R$	
	Min.	Max.	mA	Ohms	Ohms	mA	$\mu A$	V	

### 350 mWatts (SOT-23) / 200 mWatts (SOT-323)

BZX84C2V4	2.2	2.6	5	100	600	1	50	1.0	SOT-23 (No.: 10) / (SOT-323)* (No.: 11)	  
BZX84C2V7	2.5	2.9	5	100	600	1	20	1.0		
BZX84C3V0	2.8	3.2	5	95	600	1	10	1.0		
BZX84C3V3	3.1	3.5	5	95	600	1	5.0	1.0		
BZX84C3V6	3.4	3.8	5	90	600	1	5.0	1.0		
BZX84C3V9	3.7	4.1	5	90	600	1	3.0	1.0		
BZX84C4V3	4.0	4.6	5	90	600	1	3.0	1.0		
BZX84C4V7	4.4	5.0	5	80	500	1	3.0	2.0		
BZX84C5V1	4.8	5.4	5	60	480	1	2.0	2.0		
BZX84C5V6	5.2	6.0	5	40	400	1	1.0	2.0		
BZX84C6V2	5.8	6.6	5	10	150	1	3.0	4.0		
BZX84C6V8	6.4	7.2	5	15	80	1	2.0	4.0		
BZX84C7V5	7.0	7.9	5	15	80	1	1.0	5.0		
BZX84C8V2	7.7	8.7	5	15	80	1	0.7	5.0		
BZX84C9V1	8.5	9.6	5	15	100	1	0.5	6.0		
BZX84C10	9.4	10.6	5	20	150	1	0.2	7.0		
BZX84C11	10.4	11.6	5	20	150	1	0.1	8.0		
BZX84C12	11.4	12.7	5	25	150	1	0.1	8.0		
BZX84C13	12.4	14.1	5	30	170	1	0.1	8.0		
BZX84C15	13.8	15.6	5	30	200	1	0.1	10.5		
BZX84C16	15.3	17.1	5	40	200	1	0.1	11.2		
BZX84C18	16.8	19.1	5	45	225	1	0.1	12.6		
BZX84C20	18.8	21.2	5	55	225	1	0.1	14.0		
BZX84C22	20.8	23.3	5	55	250	1	0.1	15.4		
BZX84C24	22.8	25.6	5	70	250	1	0.1	16.8		
BZX84C27	25.1	28.9	5	80	300	0.5	0.1	18.9		
BZX84C30	28.0	32.0	5	80	300	0.5	0.1	21.0		
BZX84C33	31.0	35.0	5	80	325	0.5	0.1	23.1		
BZX84C36	34.0	38.0	5	90	350	0.5	0.1	25.2		
BZX84C39	37.0	41.0	5	130	350	0.5	0.1	27.3		
BZX84C43	40.0	46.0	5	150	375	0.5	0.1	30.1		
BZX84C47	44.0	50.0	5	170	375	0.5	0.1	32.9		
BZX84C51	48.0	54.0	5	180	400	0.5	0.1	35.7		

NOTE: 1.\*Suffix "W" indicates "SOT-323" package.(e.g.: BZX84C2V4W, ..... BZX84C51W)  
2.Normal Tolerance  $\pm 5\%$ .

# ZENER DIODES (SMD Type)



TYPE No.	Nominal Zener Voltage		Test Current	Max. Zener Impedance			Max. Reverse Leakage Current		[ Package Outline Drawing No. Please refer to Page: 131~139 ]
	$V_Z @ I_{ZT}$		$I_{ZT}$	$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$	$I_{ZK}$	$I_R @ V_R$		
	Min.	Max.	mA	Ohms	Ohms	mA	$\mu A$	V	

## 350 mWatts (SOT-23) / 200 mWatts (SOT-323)



MMBZ5221B	2.28	2.52	20	30	1200	0.25	100	1.0	SOT-23 (No.: 10) / (SOT-323)* (No.: 11)	 
MMBZ5222B	2.38	2.63	20	30	1250	0.25	100	1.0		
MMBZ5223B	2.57	2.84	20	30	1300	0.25	75	1.0		
MMBZ5225B	2.85	3.15	20	30	1600	0.25	50	1.0		
MMBZ5226B	3.14	3.47	20	28	1600	0.25	25	1.0		
MMBZ5227B	3.42	3.78	20	24	1700	0.25	15	1.0		
MMBZ5228B	3.71	4.10	20	23	1900	0.25	10	1.0		
MMBZ5229B	4.09	4.52	20	22	2000	0.25	5	1.0		
MMBZ5230B	4.47	4.94	20	19	1900	0.25	5	2.0		
MMBZ5231B	4.85	5.36	20	17	1600	0.25	5	2.0		
MMBZ5232B	5.32	5.88	20	11	1600	0.25	5	3.0		
MMBZ5233B	5.70	6.30	20	7	1600	0.25	5	3.5		
MMBZ5234B	5.89	6.51	20	7	1000	0.25	5	4.0		
MMBZ5235B	6.46	7.14	20	5	750	0.25	3	5.0		
MMBZ5236B	7.13	7.88	20	6	500	0.25	3	6.0		
MMBZ5237B	7.79	8.61	20	8	500	0.25	3	6.0		
MMBZ5238B	8.27	9.14	20	8	600	0.25	3	6.5		
MMBZ5239B	8.65	9.56	20	10	600	0.25	3	6.5		
MMBZ5240B	9.50	10.50	20	17	600	0.25	3	8.0		
MMBZ5241B	10.45	11.55	20	22	600	0.25	3	8.4		
MMBZ5242B	11.40	12.60	20	30	600	0.25	2	9.1		
MMBZ5243B	12.35	13.65	9.5	13	600	0.25	1	9.9		
MMBZ5245B	14.25	15.75	8.5	16	600	0.25	0.1	11		
MMBZ5246B	15.20	16.80	7.8	17	600	0.25	0.1	12		
MMBZ5248B	17.10	18.90	7.0	21	600	0.25	0.1	14		
MMBZ5250B	19.00	21.00	6.2	25	600	0.25	0.1	15		
MMBZ5251B	20.90	23.10	5.6	29	600	0.25	0.1	17		
MMBZ5252B	22.80	25.20	5.2	33	600	0.25	0.1	18		
MMBZ5254B	25.65	28.35	5.0	41	600	0.25	0.1	21		
MMBZ5255B	26.60	29.40	4.5	44	600	0.25	0.1	21		
MMBZ5256B	28.50	31.50	4.2	49	600	0.25	0.1	23		
MMBZ5257B	31.35	34.65	3.8	58	700	0.25	0.1	25		
MMBZ5258B	34.20	37.80	3.4	70	700	0.25	0.1	27		
MMBZ5259B	37.05	40.95	3.2	80	800	0.25	0.1	30		

NOTE: 1.\*Suffix "W" indicates "SOT-323" package.(e.g.: MMBZ5221BW, ..... MMBZ5259BW)  
2.Normal Tolerance  $\pm 5\%$ .

ZENER DIODES

TYPE No.	Nominal Zener Voltage		Test Current	Max. Zener Impedance			Max. Reverse Leakage Current		[ Package Outline Drawing No. Please refer to Page: 131~139 ]
	$V_Z @ I_{ZT}$			$I_{ZT}$	$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$	$I_{ZK}$	$I_R @ V_R$	
	Min.	Max.	mA	Ohms	Ohms	mA	$\mu A$	V	

### 500 mWatts (SOD-123) / 200 mWatts (SOD-323)

BZT52C2V4	2.2	2.6	5	100	600	1	50	1.0	SOD-123 (No.: 13) / (SOD-323)* (No.: 14)	  
BZT52C2V7	2.5	2.9	5	100	600	1	20	1.0		
BZT52C3V0	2.8	3.2	5	100	600	1	10	1.0		
BZT52C3V3	3.1	3.5	5	95	600	1	5	1.0		
BZT52C3V6	3.4	3.8	5	90	600	1	5	1.0		
BZT52C3V9	3.7	4.1	5	90	600	1	3	1.0		
BZT52C4V3	4.0	4.6	5	90	600	1	3	1.0		
BZT52C4V7	4.4	5.0	5	80	500	1	3	2.0		
BZT52C5V1	4.8	5.4	5	60	480	1	2	2.0		
BZT52C5V6	5.2	6.0	5	40	400	1	1	2.0		
BZT52C6V2	5.8	6.6	5	10	150	1	3	4.0		
BZT52C6V8	6.4	7.2	5	15	80	1	2	4.0		
BZT52C7V5	7.0	7.9	5	15	80	1	1	5.0		
BZT52C8V2	7.7	8.7	5	15	80	1	0.7	5.0		
BZT52C9V1	8.5	9.6	5	15	100	1	0.5	6.0		
BZT52C10	9.4	10.6	5	20	150	1	0.2	7.0		
BZT52C11	10.4	11.6	5	20	150	1	0.1	8.0		
BZT52C12	11.4	12.7	5	25	150	1	0.1	8.0		
BZT52C13	12.4	14.1	5	30	170	1	0.1	8.0		
BZT52C15	13.8	15.6	5	30	200	1	0.1	10.5		
BZT52C16	15.3	17.1	5	40	200	1	0.1	11.2		
BZT52C18	16.8	19.1	5	45	225	1	0.1	12.6		
BZT52C20	18.8	21.2	5	55	225	1	0.1	14.0		
BZT52C22	20.8	23.3	5	55	250	1	0.1	15.4		
BZT52C24	22.8	25.6	5	70	250	1	0.1	16.8		
BZT52C27	25.1	28.9	2	80	300	1	0.1	18.9		
BZT52C30	28.0	32.0	2	80	300	1	0.1	21.0		
BZT52C33	31.0	35.0	2	80	325	1	0.1	23.1		
BZT52C36	34.0	38.0	2	90	350	1	0.1	25.2		
BZT52C39	37.0	41.0	2	130	350	1	0.1	27.3		
BZT52C43	40.0	46.0	2	150	700	1	0.1	32.0		
BZT52C47	44.0	50.0	2	170	750	1	0.1	35.0		
BZT52C51	48.0	54.0	2	180	750	1	0.1	38.0		

NOTE: 1.\*Suffix "S" indicates "SOD-323" package.(e.g.: BZT52C2V4S, ..... BZT52C51S)  
 2.Normal Tolerance  $\pm 5\%$ .

# ZENER DIODES (SMD Type)



TYPE No.	Nominal Zener Voltage		Max. Zener Impedance			Max. Reverse Leakage Current		[ Package Outline Drawing No. Please refer to Page: 131~139 ]
	$V_Z @ I_{ZT}$		$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$		$I_R @ V_R$		
	V	mA	Ohms	Ohms	mA	$\mu A$	V	

## 500 mWatts (SOD-123) / 200 mWatts (SOD-323)

MMSZ5221B	2.4	20	30	1200	0.25	100	1.0
MMSZ5223B	2.7	20	30	1300	0.25	75	1.0
MMSZ5225B	3.0	20	30	1600	0.25	50	1.0
MMSZ5226B	3.3	20	28	1600	0.25	25	1.0
MMSZ5227B	3.6	20	24	1700	0.25	15	1.0
MMSZ5228B	3.9	20	23	1900	0.25	10	1.0
MMSZ5229B	4.3	20	22	2000	0.25	5	1.0
MMSZ5230B	4.7	20	19	1900	0.25	5	2.0
MMSZ5231B	5.1	20	17	1600	0.25	5	2.0
MMSZ5232B	5.6	20	11	1600	0.25	5	3.0
MMSZ5233B	6.0	20	7	1600	0.25	5	3.5
MMSZ5234B	6.2	20	7	1000	0.25	5	4.0
MMSZ5235B	6.8	20	5	750	0.25	3	5.0
MMSZ5236B	7.5	20	6	500	0.25	3	6.0
MMSZ5237B	8.2	20	8	500	0.25	3	6.5
MMSZ5238B	8.7	20	8	600	0.25	3	6.5
MMSZ5239B	9.1	20	10	600	0.25	3	7.0
MMSZ5240B	10.0	20	17	600	0.25	3	8.0
MMSZ5241B	11.0	20	22	600	0.25	2	8.4
MMSZ5242B	12.0	20	30	600	0.25	1	9.1
MMSZ5243B	13.0	9.5	13	600	0.25	0.5	9.9
MMSZ5245B	15.0	8.5	16	600	0.25	0.1	11
MMSZ5246B	16.0	7.8	17	600	0.25	0.1	12
MMSZ5248B	18.0	7.0	21	600	0.25	0.1	14
MMSZ5250B	20.0	6.2	25	600	0.25	0.1	15
MMSZ5251B	22.0	5.6	29	600	0.25	0.1	17
MMSZ5252B	24.0	5.2	33	600	0.25	0.1	18
MMSZ5254B	27.0	5.0	41	600	0.25	0.1	21
MMSZ5255B	28.0	4.5	44	600	0.25	0.1	21
MMSZ5256B	30.0	4.2	49	600	0.25	0.1	23
MMSZ5257B	33.0	3.8	58	700	0.25	0.1	25
MMSZ5258B	36.0	3.4	70	700	0.25	0.1	27
MMSZ5259B	39.0	3.2	80	800	0.25	0.1	30
MMSZ5260B	43.0	3.0	93	900	0.25	0.1	33


SOD-123  
(No.: 13)  
/  
(SOD-323)\*  
(No.: 14)

NOTE: 1.\*Suffix "S" indicates "SOD-323" package.(e.g.: MMSZ5221BS, .... MMSZ5260BS)  
2.Normal Tolerance  $\pm 5\%$ .

# ZENER DIODES (Axial Lead Type)

TYPE No.	Nominal Zener Voltage		Test Current	Max. Zener Impedance			Max. Reverse Leakage Current		[ Package Outline Drawing No. Please refer to Page: 131~139 ]
	$V_Z @ I_{ZT}$			$I_{ZT}$	$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$	$I_{ZK}$	$I_R @ V_R$	
	Min.	Max.	mA	Ohms	Ohms	mA	$\mu A$	V	

### 500 mWatts (DO-35 / DO-34)

BZX55C2V4	2.3	2.6	5	85	600	1	50	1.0	DO-35 (No.: 8) / (DO-34)* (No.: 7)	
BZX55C2V7	2.5	2.9	5	85	600	1	10	1.0		
BZX55C3V0	2.8	3.2	5	85	600	1	4	1.0		
BZX55C3V3	3.1	3.5	5	85	600	1	2	1.0		
BZX55C3V6	3.4	3.8	5	85	600	1	2	1.0		
BZX55C3V9	3.7	4.1	5	85	600	1	2	1.0		
BZX55C4V3	4.0	4.6	5	75	600	1	1	1.0		
BZX55C4V7	4.4	5.0	5	60	600	1	0.5	1.0		
BZX55C5V1	4.8	5.4	5	35	550	1	0.1	1.0		
BZX55C5V6	5.2	6.0	5	25	450	1	0.1	1.0		
BZX55C6V2	5.8	6.6	5	10	200	1	0.1	2.0		
BZX55C6V8	6.4	7.2	5	8	150	1	0.1	3.0		
BZX55C7V5	7.0	7.9	5	7	50	1	0.1	5.0		
BZX55C8V2	7.7	8.7	5	7	50	1	0.1	6.0		
BZX55C9V1	8.5	9.6	5	10	50	1	0.1	7.0		
BZX55C10	9.4	10.6	5	15	70	1	0.1	7.5		
BZX55C11	10.0	11.6	5	20	70	1	0.1	8.5		
BZX55C12	11.0	12.7	5	20	90	1	0.1	9.0		
BZX55C13	12.0	14.1	5	26	110	1	0.1	10		
BZX55C15	14.0	15.6	5	30	110	1	0.1	11		
BZX55C16	15.0	17.1	5	40	170	1	0.1	12		
BZX55C18	17.0	19.1	5	50	170	1	0.1	14		
BZX55C20	19.0	21.2	5	55	220	1	0.1	15		
BZX55C22	21.0	23.3	5	55	220	1	0.1	17		
BZX55C24	23.0	25.6	5	80	220	1	0.1	18		
BZX55C27	25.0	28.9	5	80	250	1	0.1	20		
BZX55C30	28.0	32.0	5	80	220	1	0.1	22		
BZX55C33	31.0	35.0	5	80	220	1	0.1	24		
BZX55C36	34.0	38.0	5	80	220	1	0.1	27		
BZX55C39	37.0	41.0	2.5	90	500	1	0.1	30		
BZX55C43	40.0	46.0	2.5	90	600	1	0.1	33		
BZX55C47	44.0	50.0	2.5	110	700	1	0.1	36		

NOTE: 1.\*Suffix "M" stands for "DO-34" package. (e.g.: BZX55C2V4M, .....BZX55C47M)  
 2.Normal Tolerance  $\pm 5\%$ .

# ZENER DIODES

## (SMD & Axial Lead Type)



TYPE No.	Nominal Zener Voltage		Max. Zener Impedance			Max. Reverse Leakage Current		[ Package Outline Drawing No. Please refer to Page: 131~139 ]
	$V_Z @ I_{ZT}$		$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$		$I_R @ V_R$		
	V	mA	Ohms	Ohms	mA	$\mu A$	V	

### 500 mWatts (DO-35 / DL-35 Mini Melf)

DL/1N5221B	2.4	20	30	1200	0.25	100	1.0
DL/1N5222B	2.5	20	30	1250	0.25	100	1.0
DL/1N5223B	2.7	20	30	1300	0.25	75	1.0
DL/1N5224B	2.8	20	30	1400	0.25	75	1.0
DL/1N5225B	3.0	20	30	1600	0.25	50	1.0
DL/1N5226B	3.3	20	28	1600	0.25	25	1.0
DL/1N5227B	3.6	20	24	1700	0.25	15	1.0
DL/1N5228B	3.9	20	23	1900	0.25	10	1.0
DL/1N5229B	4.3	20	22	2000	0.25	5.0	1.0
DL/1N5230B	4.7	20	19	1900	0.25	5.0	2.0
DL/1N5231B	5.1	20	17	1600	0.25	5.0	2.0
DL/1N5232B	5.6	20	11	1600	0.25	5.0	3.0
DL/1N5233B	6.0	20	7	1600	0.25	5.0	3.5
DL/1N5234B	6.2	20	7	1000	0.25	5.0	4.0
DL/1N5235B	6.8	20	5	750	0.25	3.0	5.0
DL/1N5236B	7.5	20	6	500	0.25	3.0	6.0
DL/1N5237B	8.2	20	8	500	0.25	3.0	6.5
DL/1N5238B	8.7	20	8	600	0.25	3.0	6.5
DL/1N5239B	9.1	20	10	600	0.25	3.0	7.0
DL/1N5240B	10.0	20	17	600	0.25	3.0	8.0
DL/1N5241B	11.0	20	22	600	0.25	2.0	8.4
DL/1N5242B	12.0	20	30	600	0.25	1.0	9.1
DL/1N5243B	13.0	9.5	13	600	0.25	0.5	9.9
DL/1N5244B	14.0	9.0	15	600	0.25	0.1	10.5
DL/1N5245B	15.0	8.5	16	600	0.25	0.1	11
DL/1N5246B	16.0	7.8	17	600	0.25	0.1	12
DL/1N5247B	17.0	7.5	19	600	0.25	0.1	13
DL/1N5248B	18.0	7.0	21	600	0.25	0.1	14
DL/1N5249B	19.0	6.6	23	600	0.25	0.1	14
DL/1N5250B	20.0	6.2	25	600	0.25	0.1	15
DL/1N5251B	22.0	5.6	29	600	0.25	0.1	17
DL/1N5252B	24.0	5.2	33	600	0.25	0.1	18
DL/1N5253B	25.0	5.0	35	600	0.25	0.1	19
DL/1N5254B	27.0	5.0	41	600	0.25	0.1	21
DL/1N5255B	28.0	4.5	44	600	0.25	0.1	21
DL/1N5256B	30.0	4.2	49	600	0.25	0.1	23
DL/1N5257B	33.0	3.8	58	700	0.25	0.1	25
DL/1N5258B	36.0	3.4	70	700	0.25	0.1	27
DL/1N5259B	39.0	3.2	80	800	0.25	0.1	30
DL/1N5260B	43.0	3.0	93	900	0.25	0.1	33
DL/1N5261B	47.0	2.7	105	1000	0.25	0.1	36

DO-35  
(No.: 8)  
/  
Mini Melf  
(DL-35)\*  
(No.: 38)




ZENER DIODES

NOTE: 1.Suffix "B" indicates  $\pm 5\%$  Tolerance.  
2.\*Prefix "DL" stands for "Mini Melf (DL-35) package. (e.g.: DL5221B, DL5261B,...etc.)

TYPE No.	Nominal Zener Voltage		Test Current	Max. Zener Impedance			Max. Reverse Leakage Current		<div style="border: 1px solid black; padding: 5px;">           Package Outline Drawing No. Please refer to Page: 131~139         </div>
	$V_Z @ I_{ZT}$			$I_{ZT}$	$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$	$I_{ZK}$	$I_R @ V_R$	
	Min.	Max.	mA	Ohms	Ohms	mA	$\mu A$	V	

### 500 mWatts

BZV55C2V4	2.28	2.56	5	85	600	1	50	1.0	Mini Melf (DL-35) (No.: 38)	
BZV55C2V7	2.5	2.9	5	85	600	1	10	1.0		
BZV55C3V0	2.8	3.2	5	85	600	1	4	1.0		
BZV55C3V3	3.1	3.5	5	85	600	1	2	1.0		
BZV55C3V6	3.4	3.8	5	85	600	1	2	1.0		
BZV55C3V9	3.7	4.1	5	85	600	1	2	1.0		
BZV55C4V3	4.0	4.6	5	75	600	1	1	1.0		
BZV55C4V7	4.4	5.0	5	60	600	1	0.5	1.0		
BZV55C5V1	4.8	5.4	5	35	550	1	0.1	1.0		
BZV55C5V6	5.2	6.0	5	25	450	1	0.1	1.0		
BZV55C6V2	5.8	6.6	5	10	200	1	0.1	2.0		
BZV55C6V8	6.4	7.2	5	8	150	1	0.1	3.0		
BZV55C7V5	7.0	7.9	5	7	50	1	0.1	5.0		
BZV55C8V2	7.7	8.7	5	7	50	1	0.1	6.0		
BZV55C9V1	8.5	9.6	5	10	50	1	0.1	7.0		
BZV55C10	9.4	10.6	5	15	70	1	0.1	7.5		
BZV55C11	10.4	11.6	5	20	70	1	0.1	8.5		
BZV55C12	11.4	12.7	5	20	90	1	0.1	9.0		
BZV55C13	12.4	14.1	5	26	110	1	0.1	10		
BZV55C15	13.8	15.6	5	30	110	1	0.1	11		
BZV55C16	15.3	17.1	5	40	170	1	0.1	12		
BZV55C18	16.8	19.1	5	50	170	1	0.1	14		
BZV55C20	18.8	21.2	5	55	220	1	0.1	15		
BZV55C22	20.8	23.3	5	55	220	1	0.1	17		
BZV55C24	22.8	25.6	5	80	220	1	0.1	18		
BZV55C27	25.1	28.9	5	80	250	1	0.1	20		
BZV55C30	28.0	32.0	5	80	220	1	0.1	22		
BZV55C33	31.0	35.0	5	80	220	1	0.1	24		
BZV55C36	34.0	38.0	5	80	220	1	0.1	27		
BZV55C39	37.0	41.0	3	90	500	1	0.1	30		
BZV55C43	40.0	46.0	3	90	600	1	0.1	33		
BZV55C47	44.0	50.0	2.5	110	700	1	0.1	36		

NOTE: Normal Tolerance  $\pm 5\%$ .



# ZENER DIODES (SMD Type)



TYPE No.	Nominal Zener Voltage		Test Current	Max. Zener Impedance			Max. Reverse Leakage Current		[Package Outline Drawing No. Please refer to Page: 131~139]
	$V_Z @ I_{ZT}$			$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$	$I_{ZK}$	$I_R @ V_R$		
	Min.	Max.	mA	Ohms	Ohms	mA	$\mu A$	V	

## 500 mWatts (Micro Melf / Quadro Melf)

BZM/BZQ55C2V4	2.28	2.56	5	85	600	1	50	1.0	Micro Melf (No.: 36) / Quadro Melf* (No.: 37)
BZM/BZQ55C2V7	2.5	2.9	5	85	600	1	10	1.0	
BZM/BZQ55C3V0	2.8	3.2	5	85	600	1	4	1.0	
BZM/BZQ55C3V3	3.1	3.5	5	85	600	1	2	1.0	
BZM/BZQ55C3V6	3.4	3.8	5	85	600	1	2	1.0	
BZM/BZQ55C3V9	3.7	4.1	5	85	600	1	2	1.0	
BZM/BZQ55C4V3	4.0	4.6	5	75	600	1	1	1.0	
BZM/BZQ55C4V7	4.4	5.0	5	60	600	1	0.5	1.0	
BZM/BZQ55C5V1	4.8	5.4	5	35	550	1	0.1	1.0	
BZM/BZQ55C5V6	5.2	6.0	5	25	450	1	0.1	1.0	
BZM/BZQ55C6V2	5.8	6.6	5	10	200	1	0.1	2.0	
BZM/BZQ55C6V8	6.4	7.2	5	8	150	1	0.1	3.0	
BZM/BZQ55C7V5	7.0	7.9	5	7	50	1	0.1	5.0	
BZM/BZQ55C8V2	7.7	8.7	5	7	50	1	0.1	6.0	
BZM/BZQ55C9V1	8.5	9.6	5	10	50	1	0.1	7.0	
BZM/BZQ55C10	9.4	10.6	5	15	70	1	0.1	7.5	
BZM/BZQ55C11	10.4	11.6	5	20	70	1	0.1	8.5	
BZM/BZQ55C12	11.4	12.7	5	20	90	1	0.1	9.0	
BZM/BZQ55C13	12.4	14.1	5	26	110	1	0.1	10	
BZM/BZQ55C15	13.8	15.6	5	30	110	1	0.1	11	
BZM/BZQ55C16	15.3	17.1	5	40	170	1	0.1	12	
BZM/BZQ55C18	16.8	19.1	5	50	170	1	0.1	14	
BZM/BZQ55C20	18.8	21.2	5	55	220	1	0.1	15	
BZM/BZQ55C22	20.8	23.3	5	55	220	1	0.1	17	
BZM/BZQ55C24	22.8	25.6	5	80	220	1	0.1	18	
BZM/BZQ55C27	25.1	28.9	5	80	220	1	0.1	20	
BZM/BZQ55C30	28.0	32.0	5	80	220	1	0.1	22	
BZM/BZQ55C33	31.0	35.0	5	80	220	1	0.1	24	
BZM/BZQ55C36	34.0	38.0	5	80	220	1	0.1	27	
BZM/BZQ55C39	37.0	41.0	2.5	90	500	1	0.1	30	
BZM/BZQ55C43	40.0	46.0	2.5	90	600	1	0.1	33	
BZM/BZQ55C47	44.0	50.0	2.5	110	700	1	0.1	36	

NOTE: 1.\*Prefix "BZM" indicates "Micro Melf", and "BZQ" indicates "Quadro Melf" package.  
2.Normal Tolerance  $\pm 5\%$ .

TYPE No.	Normal Zener Voltage		Max. Zener Impedance			Max. Reverse Leakage Current		<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;">                     Package Outline Drawing No. Please refer to Page: 131~139                 </div>
	$V_Z @ I_{ZT}$		$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$		$I_R @ V_R$		
	V	mA	Ohms	Ohms	mA	μA	V	

### 500 mWatts (Micro Melf / Quadro Melf)

DLM/DLQ5221B	2.4	20	30	1200	0.25	100	1.0	Micro Melf (No.: 36) / Quadro Melf* (No.: 37)
DLM/DLQ5222B	2.5	20	30	1250	0.25	100	1.0	
DLM/DLQ5223B	2.7	20	30	1300	0.25	75	1.0	
DLM/DLQ5224B	2.8	20	30	1400	0.25	75	1.0	
DLM/DLQ5225B	3.0	20	29	1600	0.25	50	1.0	
DLM/DLQ5226B	3.3	20	28	1600	0.25	25	1.0	
DLM/DLQ5227B	3.6	20	24	1700	0.25	15	1.0	
DLM/DLQ5228B	3.9	20	23	1900	0.25	10	1.0	
DLM/DLQ5229B	4.3	20	22	2000	0.25	5	1.0	
DLM/DLQ5230B	4.7	20	19	1900	0.25	5	2.0	
DLM/DLQ5231B	5.1	20	17	1600	0.25	5	2.0	
DLM/DLQ5232B	5.6	20	11	1600	0.25	5	3.0	
DLM/DLQ5233B	6.0	20	7	1600	0.25	5	3.5	
DLM/DLQ5234B	6.2	20	7	1000	0.25	5	4.0	
DLM/DLQ5235B	6.8	20	5	750	0.25	3	5.0	
DLM/DLQ5236B	7.5	20	6	500	0.25	3	6.0	
DLM/DLQ5237B	8.2	20	8	500	0.25	3	6.5	
DLM/DLQ5238B	8.7	20	8	600	0.25	3	6.5	
DLM/DLQ5239B	9.1	20	10	600	0.25	3	7.0	
DLM/DLQ5240B	10	20	17	600	0.25	3	8.0	
DLM/DLQ5241B	11	20	22	600	0.25	2	8.4	
DLM/DLQ5242B	12	20	30	600	0.25	1	9.1	
DLM/DLQ5243B	13	9.5	13	600	0.25	0.5	9.9	
DLM/DLQ5244B	14	9.5	15	600	0.25	0.1	10	
DLM/DLQ5245B	15	8.5	16	600	0.25	0.1	11	
DLM/DLQ5246B	16	7.8	17	600	0.25	0.1	12	
DLM/DLQ5247B	17	7.4	19	600	0.25	0.1	13	
DLM/DLQ5248B	18	7.0	21	600	0.25	0.1	14	
DLM/DLQ5249B	19	6.6	23	600	0.25	0.1	14	
DLM/DLQ5250B	20	6.2	25	600	0.25	0.1	15	
DLM/DLQ5251B	22	5.6	29	600	0.25	0.1	17	
DLM/DLQ5252B	24	5.2	33	600	0.25	0.1	18	
DLM/DLQ5253B	25	5.0	35	600	0.25	0.1	19	
DLM/DLQ5254B	27	4.6	41	600	0.25	0.1	21	
DLM/DLQ5255B	28	4.5	44	600	0.25	0.1	21	
DLM/DLQ5256B	30	4.2	49	600	0.25	0.1	23	
DLM/DLQ5257B	33	3.8	58	700	0.25	0.1	25	
DLM/DLQ5258B	36	3.4	70	700	0.25	0.1	27	
DLM/DLQ5259B	39	3.2	80	800	0.25	0.1	30	
DLM/DLQ5260B	43	3.0	93	900	0.25	0.1	33	
DLM/DLQ5261B	47	2.7	150	1000	0.25	0.1	36	

NOTE: 1.\*Prefix "DLM" indicates "Micro Melf", and "DLQ" indicates "Quadro Melf" package.  
2.Normal Tolerance ±5%.

# ZENER DIODES (SMD Type)



TYPE No.	Normal Zener Voltage		Test Current	Max. Zener Impedance			Max. Reverse Leakage Current		<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;">                     Package Outline Drawing No. Please refer to Page: 131~139                 </div>
	$V_Z @ I_{ZT}$			$I_{ZT}$	$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$	$I_{ZK}$	$I_R @ V_R$	
	Min.	Max.	mA	Ohms	Ohms	mA	$\mu A$	V	

## 200 mWatts (0603C) / 500 mWatts (0805C/1206C)

CDZ55C2V0	1.90	2.10	5	85	600	1	100	1.0	0603C* (No.: 35) / 0805C* (No.: 35) / 1206C (No.: 35)
CDZ55C2V2	2.09	2.31	5	85	600	1	75	1.0	
CDZ55C2V4	2.28	2.52	5	85	600	1	50	1.0	
CDZ55C2V7	2.57	2.84	5	85	600	1	10	1.0	
CDZ55C3V0	2.85	3.15	5	85	600	1	4	1.0	
CDZ55C3V3	3.14	3.47	5	85	600	1	2	1.0	
CDZ55C3V6	3.42	3.78	5	85	600	1	2	1.0	
CDZ55C3V9	3.71	4.10	5	85	600	1	2	1.0	
CDZ55C4V3	4.09	4.52	5	80	600	1	1	1.0	
CDZ55C4V7	4.47	4.94	5	70	600	1	0.5	1.0	
CDZ55C5V1	4.85	5.36	5	50	550	1	0.1	1.0	
CDZ55C5V6	5.32	5.88	5	30	450	1	0.1	1.0	
CDZ55C6V2	5.89	6.51	5	10	200	1	0.1	2.0	
CDZ55C6V8	6.46	7.14	5	8	150	1	0.1	3.0	
CDZ55C7V5	7.13	7.88	5	7	50	1	0.1	5.0	
CDZ55C8V2	7.79	8.61	5	7	50	1	0.1	6.2	
CDZ55C9V1	8.65	9.56	5	10	50	1	0.1	6.8	
CDZ55C10	9.50	10.50	5	15	70	1	0.1	7.5	
CDZ55C11	10.45	11.55	5	20	70	1	0.1	8.2	
CDZ55C12	11.40	12.60	5	20	90	1	0.1	9.1	
CDZ55C13	12.35	13.65	5	26	110	1	0.1	10.0	
CDZ55C15	14.25	15.75	5	30	110	1	0.1	11.0	
CDZ55C16	15.20	16.80	5	40	170	1	0.1	12.0	
CDZ55C18	17.10	18.90	5	50	170	1	0.1	13.0	
CDZ55C20	19.00	21.00	5	55	220	1	0.1	15.0	
CDZ55C22	20.90	23.10	5	55	220	1	0.1	16.0	
CDZ55C24	22.80	25.20	5	80	220	1	0.1	18.0	
CDZ55C27	25.65	28.35	5	80	220	1	0.1	20.0	
CDZ55C30	28.50	31.50	5	80	220	1	0.1	22.0	
CDZ55C33	31.35	34.65	5	80	220	1	0.1	24.0	
CDZ55C36	34.20	37.80	5	80	220	1	0.1	27.0	
CDZ55C39	37.05	40.95	2.5	90	500	0.5	0.1	29.3	
CDZ55C43	40.85	45.15	2.5	90	600	0.5	0.1	32.3	
CDZ55C47	44.65	49.35	2.5	110	700	0.5	0.1	35.3	
CDZ55C51	48.45	53.55	2.5	125	700	0.5	0.1	38.3	
CDZ55C56	53.20	58.80	2.5	135	1000	0.5	0.1	42.0	
CDZ55C62	58.90	65.10	2.5	150	1000	0.5	0.1	46.5	
CDZ55C68	64.60	71.40	2.5	200	1000	0.5	0.1	51.0	
CDZ55C75	71.25	78.75	2.5	250	1500	0.5	0.1	56.3	

NOTE: 1. Normal Tolerance  $\pm 5\%$ .

2. \*Suffix "S" stands for "0805C", and "T" stands for "0603C" package. (e.g.: CDZ55C2V4S, CDZ55C2V4T,...etc.)  
Non-suffix stands for "1206C" package.

