

設計驗證
工程課
2025 -04- 08
發行
鈺鐘科技開發股份有限公司

承　　認　　書

APPROVAL　SHEET

客戶名稱：	鈺緯科技開發股份有限公司
客戶料號：	QISDA PN: TY.8CD10.006　DIVA PN: 3DZ56AB033Y (D0175)
零件敘述：	ZENER (BZT52B5V6LS,SOD323,SMD,MCC)
零件料號：	BZT52B5V6LS-TP
零件廠牌：	MCC
承認日期：	2023.09.27

客戶認可章	晨昕公司發行章
設計驗證 工程課 2025 -04- 08 發行 鈺緯科技開發股份有限公司	晨昕 發行章

SRT 晨昕科技股份有限公司
SUNRISETEK CO., LTD.

TEL:02-2226-7955　FAX:02-2221-3858

Features

- Standard Vz Tolerance is ±2%
- 200mW Power Dissipation
- Halogen Free. “Green” Device (Note 1)
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant t ("P" Suffix Designates RoHS Compliant. See Ordering Information)

200 mW
Zener Diode
2.4 to 75 Volts

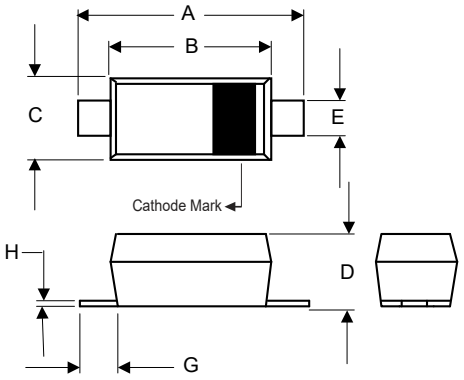
Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance : 625°C/W Junction To Ambient

Parameter	Symbol	Rating	Unit
Power Dissipation	P_D	200	mW
Maximum Forward Voltage	VF	0.9V	I_F=10mA

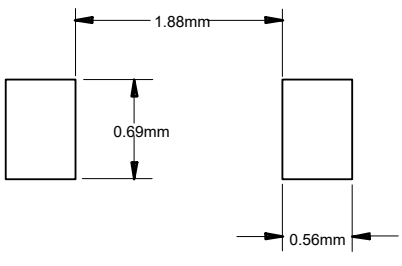
Note: 1. Halogen free "Green” products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

SOD-323FL



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.090	0.107	2.30	2.70	
B	0.063	0.078	1.60	1.95	
C	0.045	0.053	1.15	1.35	
D	0.024	0.035	0.60	0.90	
E	0.010	0.016	0.25	0.40	
G	0.016		0.40		TYP.
H	0.002	0.008	0.05	0.21	

SUGGESTED SOLDER PAD LAYOUT



Electrical Characteristics @ 25°C Unless Otherwise Specified

MCC Part Number	Zener Voltage[2]			Maximum Zener Impedance		Maximum Zener Impedance		Maximum Reverse Current		Marking Code
	V_Z @ I_{ZT}			Z_{ZT}	I_{ZT}	Z_{ZK}	I_{ZK}	I_R	V_R	
	Min.(V)	Nom(V)	Max.(V)	Ω	mA	Ω	mA	μA	V	
BZT52B2V4LS	2.45	2.53	2.61	100	5	1000	0.5	120	1.0	2.4
BZT52B2V7LS	2.71	2.80	2.89	110	5	1000	0.5	100	1.0	2.7
BZT52B3V0LS	3.03	3.12	3.20	120	5	1000	0.5	50	1.0	3.0
BZT52B3V3LS	3.34	3.43	3.51	120	5	1000	0.5	20	1.0	3.3
BZT52B3V6LS	3.53	3.60	3.67	100	5	1000	1	10	1.0	3.6
BZT52B3V9LS	3.82	3.90	3.98	100	5	1000	1	5	1.0	3.9
BZT52B4V3LS	4.21	4.30	4.39	100	5	1000	1	5	1.0	4.3
BZT52B4V7LS	4.61	4.70	4.79	100	5	800	1	2	1.0	4.7
BZT52B5V6LS	5.49	5.60	5.71	60	5	400	1	1	1.0	5.6
BZT52B6V2LS	6.08	6.20	6.32	60	5	150	1	1	2.0	6.2
BZT52B6V8LS	6.66	6.80	6.94	40	5	80	1	0.5	3.0	6.8
BZT52B7V5LS	7.35	7.50	7.65	30	5	60	1	0.5	5.0	7.5
BZT52B8V2LS	8.04	8.20	8.36	30	5	60	1	0.5	6.1	8.2
BZT52B9V1LS	8.92	9.10	9.28	30	5	60	1	0.5	6.8	9.1
BZT52B10LS	9.80	10.0	10.20	30	5	70	1	0.1	7.5	10.
BZT52B11LS	10.78	11.0	11.22	30	5	70	1	0.1	8.2	11.
BZT52B12LS	11.76	12.0	12.24	30	5	90	1	0.1	9.0	12.
BZT52B13LS	12.74	13.0	13.26	40	5	110	1	0.1	9.7	13.
BZT52B15LS	14.70	15.0	15.30	45	5	110	1	0.1	11	15.
BZT52B16LS	15.68	16.0	16.32	50	5	170	1	0.1	12	16.
BZT52B18LS	17.64	18.0	18.36	65	5	170	1	0.1	14	18.
BZT52B20LS	19.60	20.0	20.40	85	5	220	1	0.1	15	20.
BZT52B22LS	21.56	22.0	22.44	100	5	220	1	0.1	17	22.
BZT52B24LS	23.52	24.0	24.48	120	5	220	1	0.1	18	24.
BZT52B27LS	26.46	27.0	27.54	150	5	220	1	0.1	20	27.
BZT52B30LS	29.40	30.0	30.60	200	5	220	1	0.1	22	30.
BZT52B33LS	32.34	33.0	33.66	250	5	250	1	0.1	24	33.
BZT52B36LS	35.28	36.0	36.72	300	5	300	1	0.1	27	36.
BZT52B39LS	38.22	39.0	39.78	130	5	350	0.5	0.1	27.3	39.
BZT52B43LS	42.14	43.0	43.86	130	5	350	0.5	0.1	29.4	43.
BZT52B47LS	45.83	47.0	48.17	170	5	1000	0.25	0.1	36	47.
BZT52B51LS	49.73	51.0	52.27	180	5	1300	0.25	0.1	39	51.
BZT52B56LS	54.60	56.0	57.40	200	5	1400	0.25	0.1	43	56.
BZT52B62LS	60.45	62.0	63.55	225	5	1400	0.25	0.1	47	62.
BZT52B68LS	66.30	68.0	69.70	240	5	1600	0.25	0.1	52	68.
BZT52B75LS	73.13	75.0	76.87	265	5	1700	0.25	0.1	56	75.

Note : 2.Pulse width = 10 ms

Curve Characteristics

Fig. 1 - Power Derating Curve

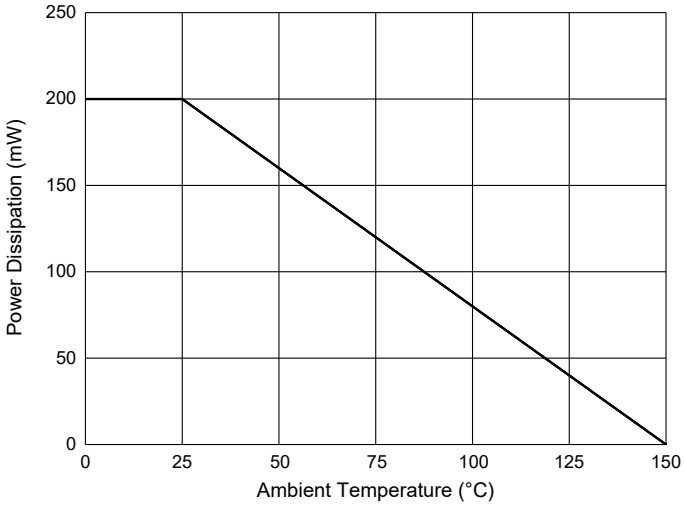
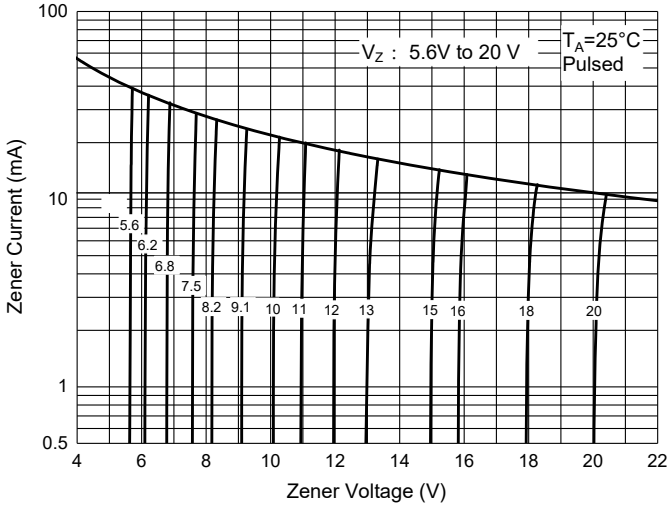


Fig. 2 - Typical Zener Breakdown Characteristics



Ordering Information

Device	Packing
Part Number-TP	Tape&Reel:3Kpcs/Reel

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