

DZ23C2V4 SERIES

DUAL SURFACE MOUNT ZENER DIODES

VOLTAGE 2.4 to 51 Volt **POWER** 300 mWatt

SOT-23

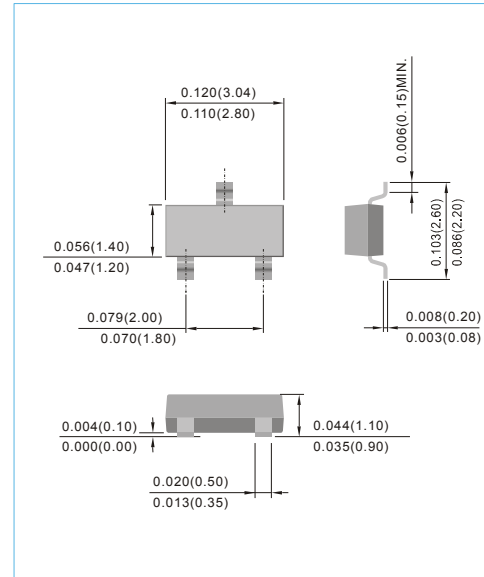
Unit : inch(mm)

FEATURES

- Dual Zeners in Common Cathode Configuration
- 300mW Power Dissipation Rating
- Zener Voltages from 2.4~51V
- Ideally Suited for Automatic Insertion
- Common Anode Style Available See AZ Series
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

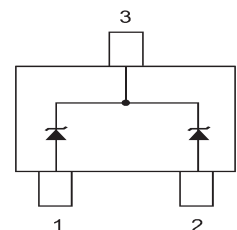
MECHANICAL DATA

- Case: SOT-23, Molded Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0003 ounces, 0.008 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	VALUE	UNITS
Power Dissipation (Note 1)	P_D	300	mW
Thermal Resistance, Junction to Ambient Air (Note 1)	$R_{\theta JA}$	420	$^{\circ}C/W$
Operating Junction Temperature and Storage Temperature Range	T_J, T_{STG}	-65 to +150	$^{\circ}C$



NOTES :

1. Mounted on 5mm²(0.013mm thick) land areas.
2. Measured on 8.3ms, single half sine-wave or equivalent square wave, duty cycle = 4 pulses per minute maximum.



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Part Number	Nominal Zener Voltage			Max. Zener Impedance				Max Reverse Leakage Current		Marking Code
	V _Z @ I _{ZT}			Z _{ZT} @ I _{ZT}		Z _{ZK} @ I _{ZK}		I _R @ V _R		
	Nom. V	Min. V	Max. V	Ω	mA	Ω	mA	μA	V	
DZ23C2V4	2.4	2.28	2.52	85	5.0	600	1.00	100.0	1.0	V0
DZ23C2V7	2.7	2.57	2.84	83	5.0	600	1.00	75	1.0	V1
DZ23C3V0	3.0	2.85	3.15	95	5.0	600	1.00	50	1.0	V2
DZ23C3V3	3.3	3.14	3.47	95	5.0	600	1.00	25	1.0	V3
DZ23C3V6	3.6	3.42	3.78	90	5.0	600	1.00	5.0	1.0	V4
DZ23C3V9	3.9	3.71	4.10	90	5.0	600	1.00	3.0	1.0	V5
DZ23C4V3	4.3	4.09	4.52	95	5.0	600	1.00	5.0	1.0	V6
DZ23C4V7	4.7	4.47	4.94	78	5.0	500	1.00	5.0	2.0	V7
DZ23C5V1	5.1	4.85	5.36	60	5.0	480	1.00	0.1	0.8	V8
DZ23C5V6	5.6	5.32	5.88	40	5.0	400	1.00	0.1	1.0	V9
DZ23C6V2	6.2	5.89	6.51	10	5.0	150	1.00	0.1	2.0	V10
DZ23C6V8	6.8	6.46	7.14	8	5.0	80	1.00	0.1	3.0	V11
DZ23C7V5	7.5	7.13	7.88	7	5.0	80	1.00	0.1	5.0	V12
DZ23C8V2	8.2	7.79	8.61	7	5.0	80	1.00	0.1	6.0	V13
DZ23C8V7	8.7	8.27	9.14	7	5.0	80	1.00	0.1	6.5	V87
DZ23C9V1	9.1	8.65	9.56	10	5.0	100	1.00	0.1	7.0	V14
DZ23C10	10	9.50	10.50	15	5.0	150	1.00	0.1	7.5	V15
DZ23C11	11	10.45	11.55	20	5.0	150	1.00	0.1	8.5	V16
DZ23C12	12	11.40	12.60	20	5.0	150	1.00	0.1	9.0	V17
DZ23C13	13	12.35	13.65	25	5.0	170	1.00	0.1	10.0	V18
DZ23C14	14	13.30	14.70	25	5.0	170	1.00	0.1	10.5	VA
DZ23C15	15	14.25	15.75	30	5.0	200	1.00	0.1	11.0	V19
DZ23C16	16	15.20	16.80	40	5.0	200	1.00	0.1	12.0	V20
DZ23C17	17	16.15	17.85	40	5.0	200	1.00	0.1	13.0	VB
DZ23C18	18	17.10	18.90	50	5.0	225	1.00	0.1	14.0	V21
DZ23C20	20	19.00	21.00	50	5.0	225	1.00	0.1	15.0	V22
DZ23C22	22	20.90	23.10	55	5.0	250	1.00	0.1	17.0	V23
DZ23C24	24	22.80	25.20	80	5.0	250	1.00	0.1	18.0	V24
DZ23C27	27	25.65	28.35	80	5.0	300	1.00	0.1	20.0	V25
DZ23C28	28	26.60	29.40	80	5.0	300	1.00	0.1	22.0	VC
DZ23C30	30	28.50	31.50	80	5.0	300	1.00	0.1	22.5	V26
DZ23C33	33	31.35	34.65	80	5.0	325	1.00	0.1	25.0	V27
DZ23C36	36	34.20	37.80	90	5.0	350	1.00	0.1	27.0	V28
DZ23C39	39	37.05	40.95	90	5.0	350	1.00	0.1	29.0	V29
DZ23C43	43	40.85	45.15	100	5.0	375	1.00	0.1	32.0	V30
DZ23C47	47	44.65	49.35	100	5.0	375	1.00	0.1	35.0	V31
DZ23C51	51	48.45	53.55	100	5.0	400	1.00	0.1	38.0	V32

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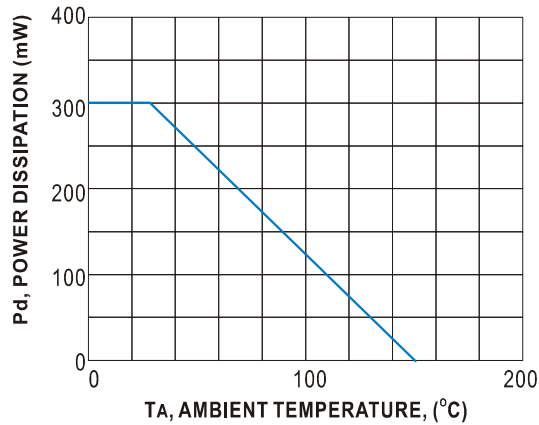


Fig.1 POWER DERATING CURVE

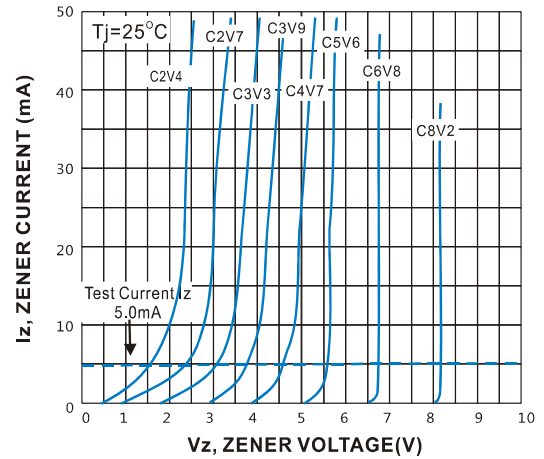


Fig.2 ZENER BREAKDOWN CHARACTERISTICS

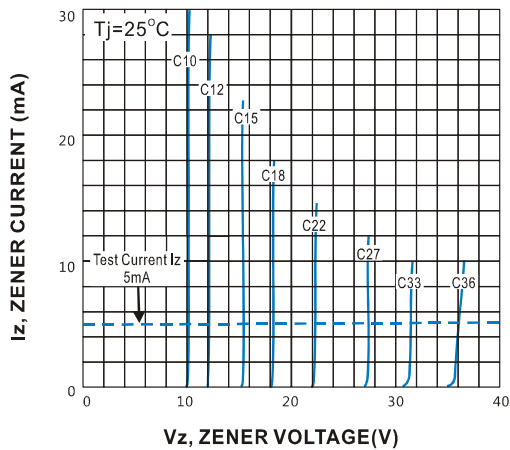


Fig.3 ZENER BREAKDOWN CHARACTERISTICS

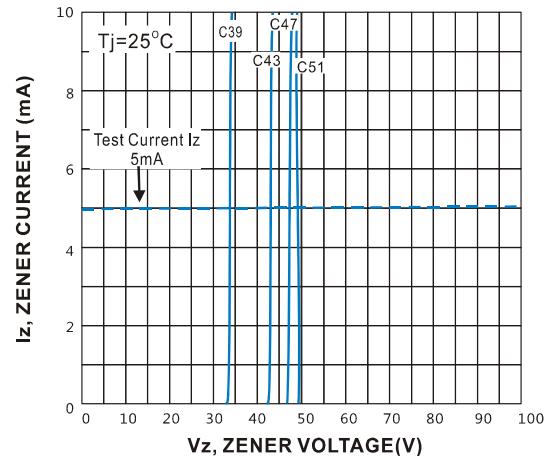


Fig.4 ZENER BREAKDOWN CHARACTERISTICS

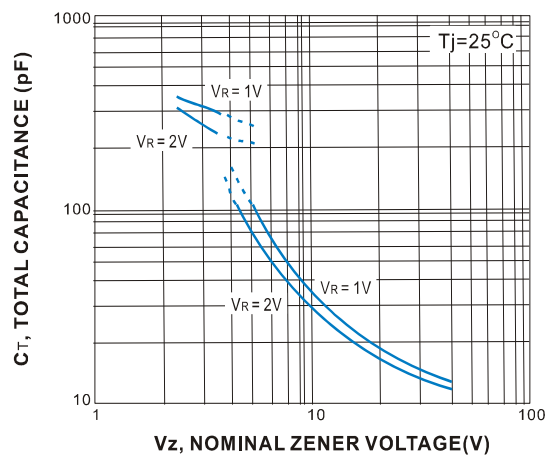


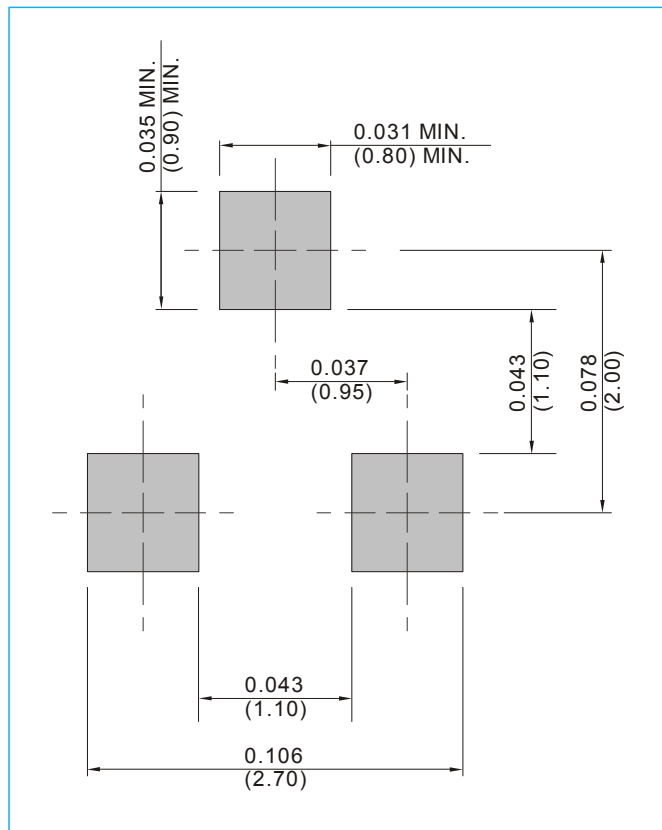
Fig.5 TOTAL CAPACITANCE VS NOMINAL ZENER VOLTAGE

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MOUNTING PAD LAYOUT

SOT-23

Unit : inch(mm)



ORDER INFORMATION

- Packing information

T/R - 12K per 13" plastic Reel

T/R - 3K per 7" plastic Reel



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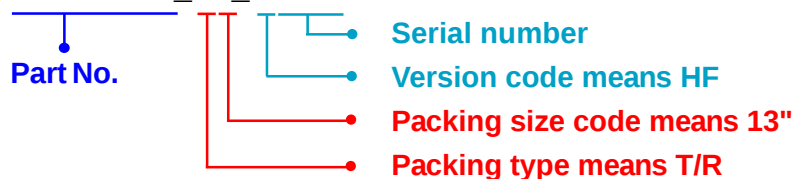
Part No_packing code_Version

DZ23C2V4_R1_00001

DZ23C2V4_R2_00001

For example :

RB500V-40_R2_00001



Packing Code XX				Version Code XXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			



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