



Micro Commercial Components



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DZ23C2V4 THRU DZ23C75

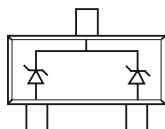
Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Dual zeners in common cathode configuration.
- 300mW power dissipation rating.
- Ideally suited for automatic insertion.
- Δv_z for both diodes in one case is $\leq 5\%$.
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

Absolute Maximum Ratings

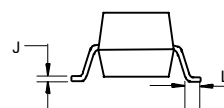
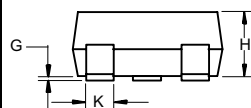
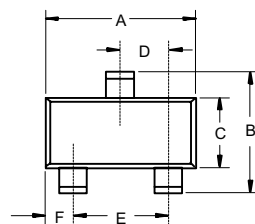
Symbol	Parameter	Rating	Unit
P_D	Power dissipation	300	mW
R_{thJA}	Thermal Resistance, Junction to Ambient Air	420	$^{\circ}\text{C}/\text{W}$
T_{STG}	Storage Temperature Range	-65 to +150	$^{\circ}\text{C}$

*Pin Configuration - Top View



300 mW
Zener Diode
2.4 to 75 Volts

SOT-23



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.110	.120	2.80	3.04	
B	.083	.104	2.10	2.64	
C	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
E	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
H	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	
L	.007	.020	.20	.50	

DZ23C2V4 THRU DZ23C75

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/KV1	
DZ23C3V0	3.0	2.85	3.15	95	5.0	600	1.00	50	1.0	V2/KV2	
DZ23C3V3	3.3	3.14	3.47	95	5.0	600	1.00	25	1.0	V3/KV3	
DZ23C3V6	3.6	3.42	3.78	95	5.0	600	1.00	15	1.0	V4/KV4	
DZ23C3V9	3.9	3.71	4.10	95	5.0	600	1.00	10	1.0	V5/KV5	
DZ23C4V3	4.3	4.09	4.52	95	5.0	600	1.00	5.0	1.0	V6/KV6	
DZ23C4V7	4.7	4.47	4.94	78	5.0	500	1.00	5.0	2.0	V7/KV7	
DZ23C5V1	5.1	4.85	5.36	60	5.0	480	1.00	0.1	0.8	V8/KV8	
DZ23C5V6	5.6	5.32	5.88	40	5.0	400	1.00	0.1	1.0	V9/KV9	
DZ23C6V2	6.2	5.89	6.51	10	5.0	150	1.00	0.1	2.0	V10/KVA	
DZ23C6V8	6.8	6.46	7.14	8	5.0	80	1.00	0.1	3.0	V11/KVB	
DZ23C7V5	7.5	7.13	7.88	7	5.0	80	1.00	0.1	5.0	V12/KVC	
DZ23C8V2	8.2	7.79	8.61	7	5.0	80	1.00	0.1	6.0	V13/KVD	
DZ23C9V1	9.1	8.65	9.56	10	5.0	100	1.00	0.1	7.0	V14/KVE	
DZ23C10	10	9.50	10.50	15	5.0	150	1.00	0.1	7.5	V15/KVF	
DZ23C11	11	10.45	11.55	20	5.0	150	1.00	0.1	8.5	V16/KVG	
DZ23C12	12	11.40	12.60	20	5.0	150	1.00	0.1	9.0	V17/KVH	
DZ23C13	13	12.35	13.65	25	5.0	170	1.00	0.1	10.0	V18/KVI	
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/KVJ	
DZ23C16	16	15.20	16.80	40	5.0	200	1.00	0.1	12.0	V20/KVK	
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/KVL	
DZ23C20	20	19.00	21.00	50	5.0	225	1.00	0.1	15.0	V22/KVM	
DZ23C22	22	20.90	23.10	55	5.0	250	1.00	0.1	17.0	V23/KVN	
DZ23C24	24	22.80	25.20	80	5.0	250	1.00	0.1	18.0	V24/KVO	
DZ23C27	27	25.65	28.35	80	5.0	300	1.00	0.1	20.0	V25/KVP	
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/KVQ	
DZ23C33	33	31.35	34.65	80	5.0	325	1.00	0.1	25.0	V27/KVR	
DZ23C36	36	34.20	37.80	90	5.0	350	1.00	0.1	27.0	V28/KVS	
DZ23C39	39	37.05	40.95	90	5.0	350	1.00	0.1	29.0	V29/KVT	
DZ23C43	43	40.85	45.15	100	5.0	700	1.00	0.1	32.0	V30/KVU	
DZ23C47	47	44.65	49.35	100	5.0	750	1.00	0.1	35.0	V31/KVV	
DZ23C51	51	48.45	53.55	100	5.0	750	1.00	0.1	38.0	V32/KVW	
DZ23C56	56	53.20	58.80	135	2.5	1000	1.00	0.1	42.0	V33	
DZ23C62	62	58.90	65.10	150	2.5	1000	1.00	0.1	46.0	V34	
DZ23C68	68	64.60	71.40	200	2.5	1000	1.00	0.1	51.0	V35	
DZ23C75	75	71.25	78.75	250	2.5	1000	1.00	0.1	56.0	V36	

DZ23C2V4-DZ23C75

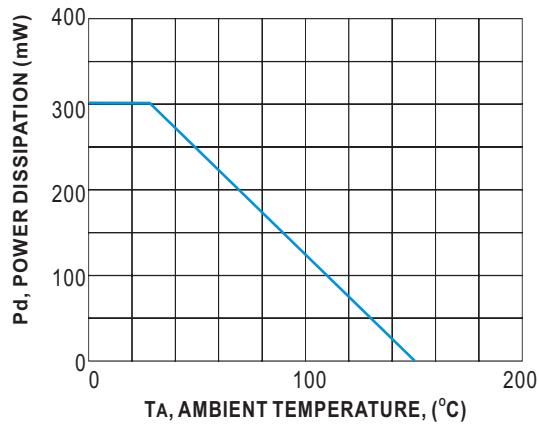


Fig.1 POWER DERATING CURVE

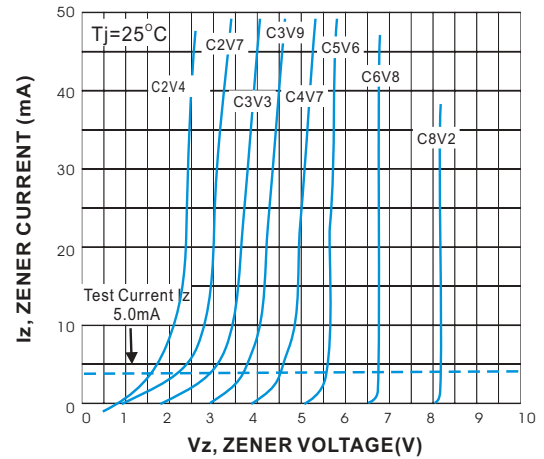


Fig.2 ZENER BREAKDOWN CHARACTERISTIC

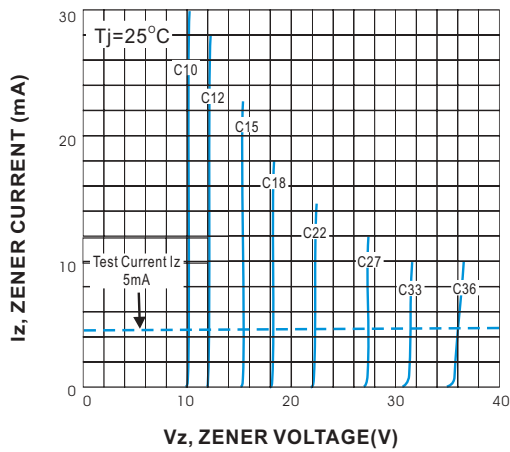


Fig.3 ZENER BREAKDOWN CHARACTERISTICS

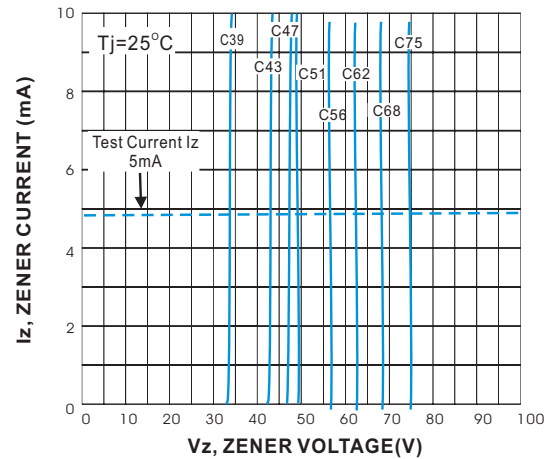


Fig.4 ZENER BREAKDOWN CHARACTERISTICS

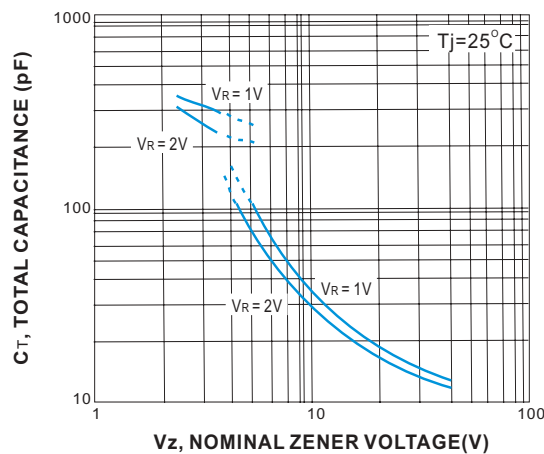


Fig.5 TOTAL CAPACITANCE VS NOMINAL ZENER VOLTAGE

Ordering Information :

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

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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