



Micro Commercial Components



Micro Commercial Components
20736 Marilla Street Chatsworth
CA 91311
Phone: (818) 701-4933
Fax: (818) 701-4939

DZ23C2V4 THRU DZ23C75

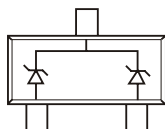
Features

- 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

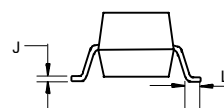
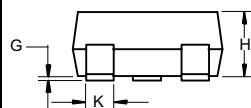
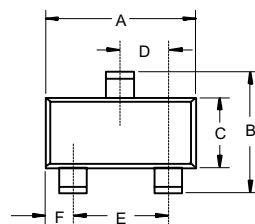
Symbol	Parameter	Rating	Unit
P_D	Power dissipation	300	mW
R_{thJA}	Thermal Resistance, Junction to Ambient Air	420	$^{\circ}\text{C/W}$
T_{STG}	Storage Temperature Range	-65 to +150	$^{\circ}\text{C}$

*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

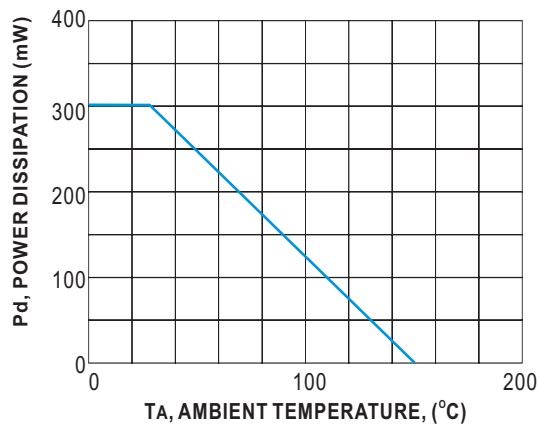


Fig.1 POWER DERATING CURVE

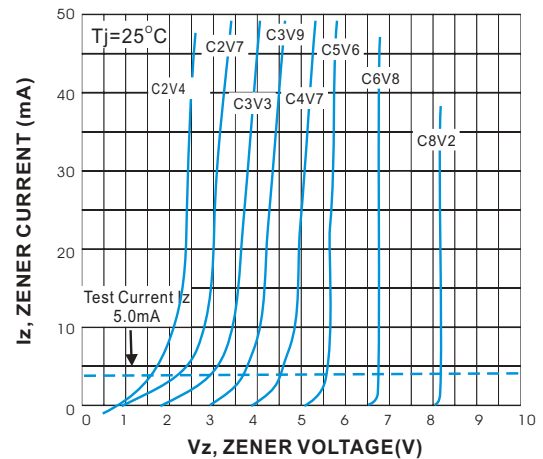


Fig.2 ZENER BREAKDOWN CHARACTERISTIC

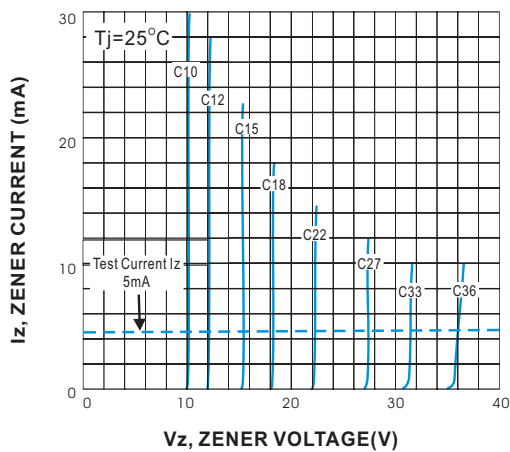


Fig.3 ZENER BREAKDOWN CHARACTERISTICS

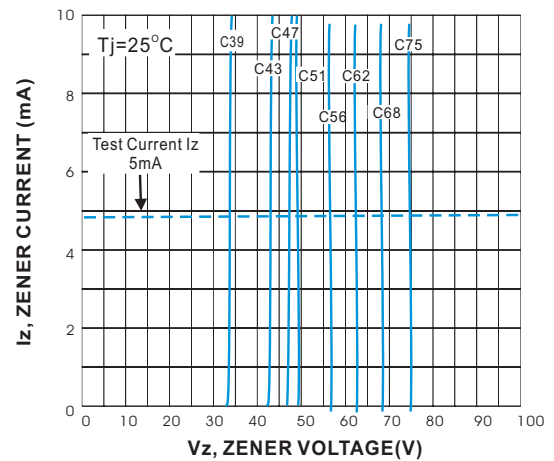


Fig.4 ZENER BREAKDOWN CHARACTERISTICS

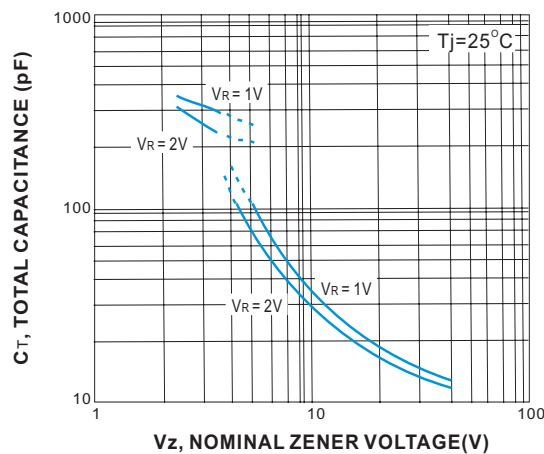


Fig.5 TOTAL CAPACITANCE VS NOMINAL ZENER VOLTAGE

Ordering Information :

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

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

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications , enhancements , improvements , or other changes . **Micro Commercial Components Corp .** does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights ,nor the rights of others . The user of products in such applications shall assume all risks of such use and will agree to hold **Micro Commercial Components Corp .** and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources.** MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.