



Micro Commercial Components

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

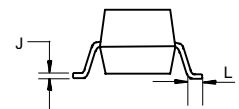
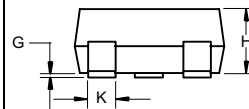
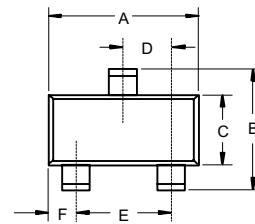
# DZ23C2V4 THRU DZ23C75

## 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.
- $\Delta$  vz for both diodes in one case is  $\leq 5\%$ .
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1

**300 mW  
Zener Diode  
2.4 to 75 Volts**

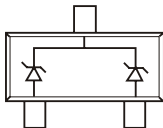
## SOT-23



## Absolute Maximum Ratings

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

\*Pin Configuration - Top View



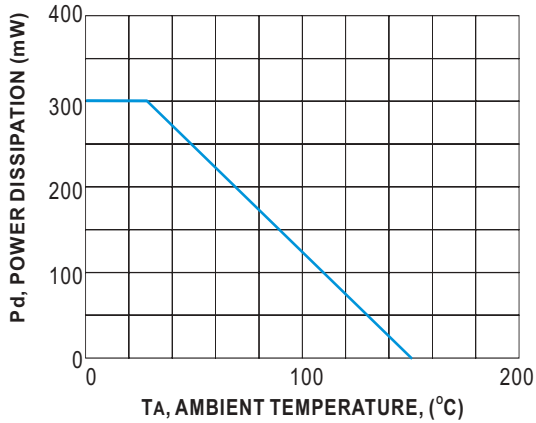
DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.110	.120	2.80	3.04	
B	.083	.098	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	

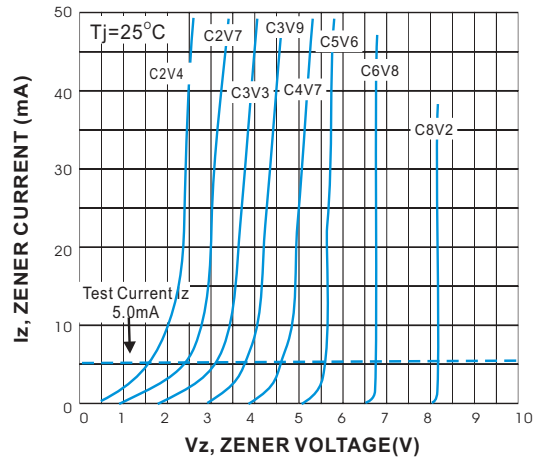
**DZ23C2V4 THRU DZ23C75**

Part Number	Nominal Zener Voltage			Max. Zener Impedance				Max Reverse Leakage Current		Marking Code
	Vz @ IzT			ZzT @ IzT		Zzk @ Izk		Ir @ VR		
	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	95	5.0	600	1.00	15	1.0	V4
DZ23C3V9	3.9	3.71	4.10	95	5.0	600	1.00	10	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
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	700	1.00	0.1	32.0	V30
DZ23C47	47	44.65	49.35	100	5.0	750	1.00	0.1	35.0	V31
DZ23C51	51	48.45	53.55	100	5.0	750	1.00	0.1	38.0	V32
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

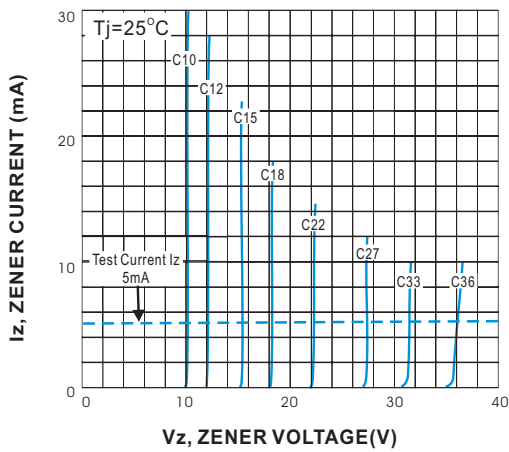
**DZ23C2V4-DZ23C75**



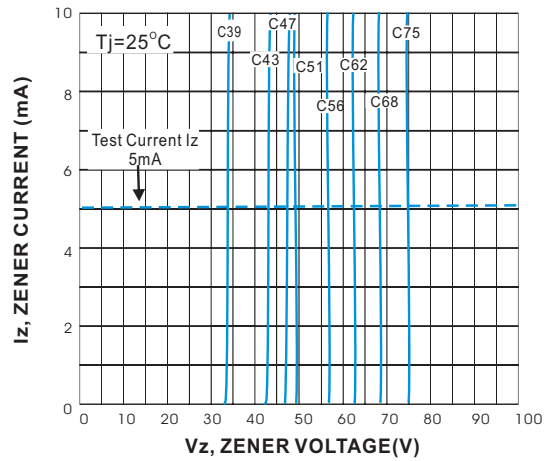
**Fig.1 POWER DERATING CURVE**



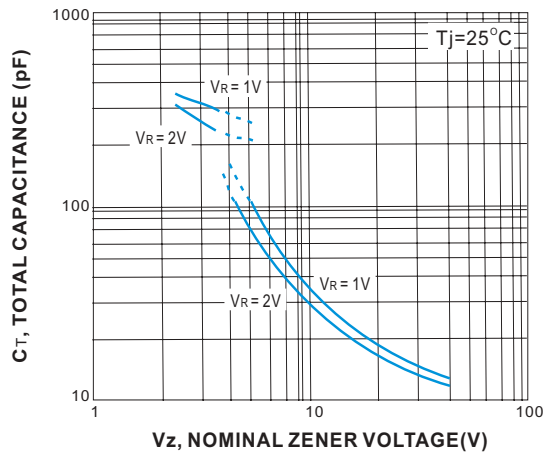
**Fig.2 ZENER BREAKDOWN CHARACTERISTIC**



**Fig.3 ZENER BREAKDOWN CHARACTERISTICS**



**Fig.4 ZENER BREAKDOWN CHARACTERISTICS**



**Fig.5 TOTAL CAPACITANCE VS NOMINAL ZENER VOLTAGE**



Micro Commercial Components

## Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel;3Kpcs/Reel

### \*\*\*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.

### \*\*\*APPLICATIONS DISCLAIMER\*\*\*

Products offer by *Micro Commercial Components Corp.* are not intended for use in Medical, Aerospace or Military Applications.