



Micro Commercial Components



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AZ23C2V7W THRU AZ23C39W

**200 mW
Zener Diode
2.7 to 39 Volts**

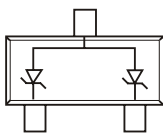
Features

- Dual zeners in common anode configuration.
- 200mW 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"

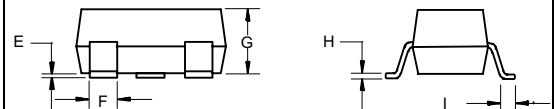
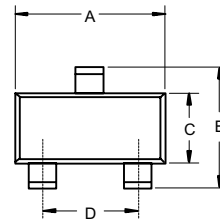
Absolute Maximum Ratings

Symbol	Parameter	Rating	Unit
P_D	Power dissipation	200	mW
R_{thJA}	Thermal Resistance, Junction to Ambient Air	625	$^{\circ}C/W$
T_{STG}	Storage Temperature Range	-65 to +150	$^{\circ}C$

*Pin Configuration - Top View

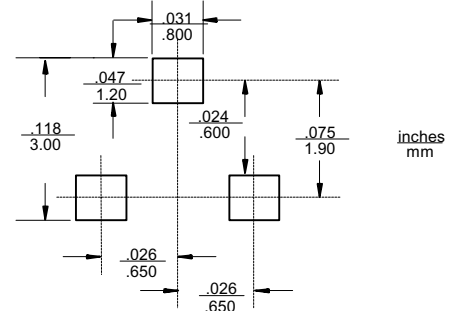


SOT-323



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.070	.087	1.80	2.20	
B	.083	.096	2.10	2.45	
C	.045	.054	1.15	1.35	
D	.047	.056	1.20	1.40	
E	---	.004	---	.10	
F	.006	.016	.15	.40	
G	.035	.044	.90	1.10	
H	.002	.006	.05	.15	
I	.010	---	.25	---	

Suggested Solder Pad Layout



AZ23C2V7W THRU AZ23C39W
Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Type Number	Marking Code	Zener voltage Range (note1)	Maximum zener Impedance (note 2)		Typical Temperature coefficient	Min reverse Voltage (note1)
		@ $I_{ZT}=5.0\text{mA}$	$Z_{ZT}@I_{ZT}=5.0\text{mA}$	$Z_{Zk}@I_{Zk}=1.0\text{mA}$		@ $I_R=0.1\mu\text{A}$
		V_Z (volts)	Ohms	Ohms	T_c (%/ $^\circ\text{C}$)	V_R (volts)
AZ23C2V7W	KD1	2.5-2.9	83	500	-0.065	—
AZ23C3V0W	KD2	2.8-3.2	95	500	-0.060	—
AZ23C3V3W	KD3	3.1-3.5	95	500	-0.055	—
AZ23C3V6W	KD4	3.4-3.8	95	500	-0.055	—
AZ23C3V9W	KD5	3.7-4.1	95	500	-0.050	—
AZ23C4V3W	KD6	4.0-4.6	95	500	-0.035	—
AZ23C4V7W	KD7	4.4-5.0	78	500	-0.015	—
AZ23C5V1W	KD8	4.8-5.4	60	480	+0.005	0.8
AZ23C5V6W	KD9	5.2-6.0	40	400	+0.020	1.0
AZ23C6V2W	KDA	5.8-6.6	10	200	+0.030	2.0
AZ23C6V8W	KDB	6.4-7.2	8.0	150	+0.045	3.0
AZ23C7V5W	KDC	7.0-7.9	7.0	50	+0.050	5.0
AZ23C8V2W	KDD	7.7-8.7	7.0	50	+0.055	6.0
AZ23C9V1W	KDE	8.5-9.6	10	50	+0.065	7.0
AZ23C10W	KDF	9.4-10.6	15	70	+0.065	7.5
AZ23C11W	KDG	10.4-11.6	20	70	+0.070	8.5
AZ23C12W	KDH	11.4-12.7	20	90	+0.075	9.0
AZ23C13W	KDI	12.4-14.1	25	110	+0.080	10.0
AZ23C15W	KDJ	13.8-15.6	30	110	+0.080	11.0
AZ23C16W	KDK	15.3-17.1	40	170	+0.090	12.0
AZ23C18W	KDL	16.8-19.1	50	170	+0.090	14.0
AZ23C20W	KDM	18.8-21.2	50	220	+0.090	15.0
AZ23C22W	KDN	20.8-23.3	55	220	+0.090	17.0
AZ23C24W	KDO	22.8-25.6	80	220	+0.090	18.0
AZ23C27W	KDP	25.1-28.9	80	250	+0.090	20.0
AZ23C30W	KDQ	28-32	80	250	+0.090	22.5
AZ23C33W	KDR	31-35	80	250	+0.090	25.0
AZ23C36W	KDS	34-38	90	250	+0.090	27.0
AZ23C39W	KDT	37-41	90	300	+0.110	29.0

Notes: 1. Short duration test pulse used to minimize self-heating effect.

 2. $f=1\text{kHz}$



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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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