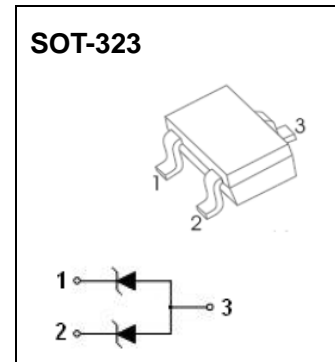


## SOT-323 Plastic-Encapsulate Diodes

### **AZ23C2V4W-AZ23C39W** ZENER DIODE

#### FEATURE

- Operating Voltage: 0.9V to 3.9V
- Power Dissipation: 200mW
- Forward Voltage: 0.6V to 0.8V
- ΔX: 0.1V to 0.2V
- Operating and Storage Temperature Range: -55°C to 150°C
- Cathode Identification: Cathode is marked with a dot on the top surface.



#### Maximum Ratings (Ta=25°C unless otherwise specified)

Characteristic	Symbol	Value	Unit
Forward Voltage @ I <sub>F</sub> = 10mA	V <sub>F</sub>	0.9	V
Power Dissipation	P <sub>d</sub>	200	mW
Thermal Resistance (Junction to Ambient)	R <sub>θJA</sub>	625	°C/W
Operation Junction and Storage Temperature Range	T <sub>J</sub> , T <sub>c</sub>	-55 to 150	°C

**ELECTRICAL CHARACTERISTICS**
**T<sub>a</sub>=25°C unless otherwise specified**

MCC Part Number	Zener Voltage	Maximum Zener Impedance		Maximum Zener Impedance		Maximum Reverse Current I <sub>R</sub> @ V <sub>R</sub>		Typical Temperature Coefficient mV/°C		Marking Code	
		V <sub>Z</sub> @ I <sub>ZT</sub>	I <sub>ZT</sub>	Z <sub>ZT</sub> @ I <sub>ZT</sub>	I <sub>ZK</sub>	Z <sub>ZK</sub> @ I <sub>ZK</sub>	I <sub>R</sub>	V <sub>R</sub>	T <sub>c</sub> @ I <sub>ZTC</sub>		
		V	mA	Ω	mA	Ω	μA	V	min.		max.
AZ23C2V4W	2.28~2.65	5	100	1	600	50	1	-3.5	0	KD0	
AZ23C2V7W	2.5~2.9	5	100	1	600	20	1	-3.5	0	KD1	
AZ23C3V0W	2.8~3.2	5	95	1	600	10	1	-3.5	0	KD2	
AZ23C3V3W	3.1~3.5	5	95	1	600	5.0	1	-3.5	0	KD3	
AZ23C3V6W	3.4~3.8	5	90	1	600	5.0	1	-3.5	0	KD4	
AZ23C3V9W	3.7~4.1	5	90	1	600	3.0	1	-3.5	0	KD5	
AZ23C4V3W	4.0~4.6	5	90	1	600	3.0	1	-3.5	0	KD6	
AZ23C4V7W	4.4~5.0	5	80	1	500	3.0	2	-3.5	0.2	KD7	
AZ23C5V1W	4.8~5.4	5	60	1	480	2.0	2.0	-2.7	1.2	KD8	
AZ23C5V6W	5.2~6.0	5	40	1	400	1.0	2.0	-2.0	2.5	KD9	
AZ23C6V2W	5.8~6.6	5	10	1	150	3.0	4.0	0.4	3.7	KDA	
AZ23C6V8W	6.4~7.2	5	15	1	80	2.0	4.0	1.2	4.5	KDB	
AZ23C7V5W	7.0~7.9	5	15	1	80	1.0	5	2.5	5.3	KDC	
AZ23C8V2W	7.7~8.7	5	15	1	80	0.7	5	3.2	6.2	KDD	
AZ23C9V1W	8.5~9.6	5	15	1	100	0.5	6	3.8	7.0	KDE	
AZ23C10W	9.4~10.6	5	20	1	150	0.2	7.0	4.5	8.0	KDF	
AZ23C11W	10.4~11.6	5	20	1	150	0.1	8.0	5.4	9.0	KDG	
AZ23C12W	11.4~12.7	5	25	1	150	0.1	8.0	6.0	10.0	KDH	
AZ23C13W	12.4~14.1	5	30	1	170	0.1	8.0	7.0	11.0	KDI	
AZ23C15W	13.8~15.6	5	30	1	200	0.1	10.5	9.2	13.0	KDJ	
AZ23C16W	15.3~17.1	5	40	1	200	0.1	11.2	10.4	14.0	KDK	
AZ23C18W	16.8~19.1	5	45	1	225	0.1	12.6	12.4	16.0	KDL	
AZ23C20W	18.8~21.2	5	55	1	225	0.1	14.0	14.4	18.0	KDM	
AZ23C22W	20.8~23.3	5	55	1	250	0.1	15.4	16.4	20.0	KDN	
AZ23C24W	22.8~25.6	5	70	1	250	0.1	16.8	18.4	22.0	KDO	
AZ23C27W	25.1~28.9	2	80	0.5	300	0.1	18.9	21.4	25.3	KDP	
AZ23C30W	28~32	2	80	0.5	300	0.1	21.0	24.4	29.4	KDQ	
AZ23C33W	31~35	2	80	0.5	325	0.1	23.1	27.4	33.4	KDR	
AZ23C36W	34~38	2	90	0.5	350	0.1	25.2	30.4	37.4	KDS	
AZ23C39W	37~41	2	130	0.5	350	0.1	27.3	33.4	41.2	KDT	

**Typical Characteristics**
