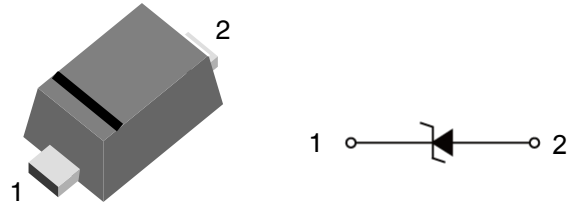


## Zener Diode in SOD-923

### Features

- Low Zener Impedance
- 200mW Power Dissipation
- High Stability and High Reliability



### Mechanical Data

- **Case:** SOD-923 (plastic package).  
Lead free; RoHS compliant
- **Molding Compound Flammability Rating:**  
UL 94 V-0
- **Terminals:** High temperature soldering guaranteed:  
260 °C/10 sec. at terminals

### Absolute Maximum Ratings

Ratings at 25 °C, ambient temperature unless otherwise specified

Characteristic	Symbol	Value	Unit
Forward Voltage (Note 2) @ $I_F = 10\text{mA}$	$V_F$	0.9	V
Power Dissipation(Note 1)	$P_d$	100	mW
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	417	°C/W
Junction Temperature	$T_j$	150	°C
Storage Temperature Range	$T_{stg}$	-55~+150	°C

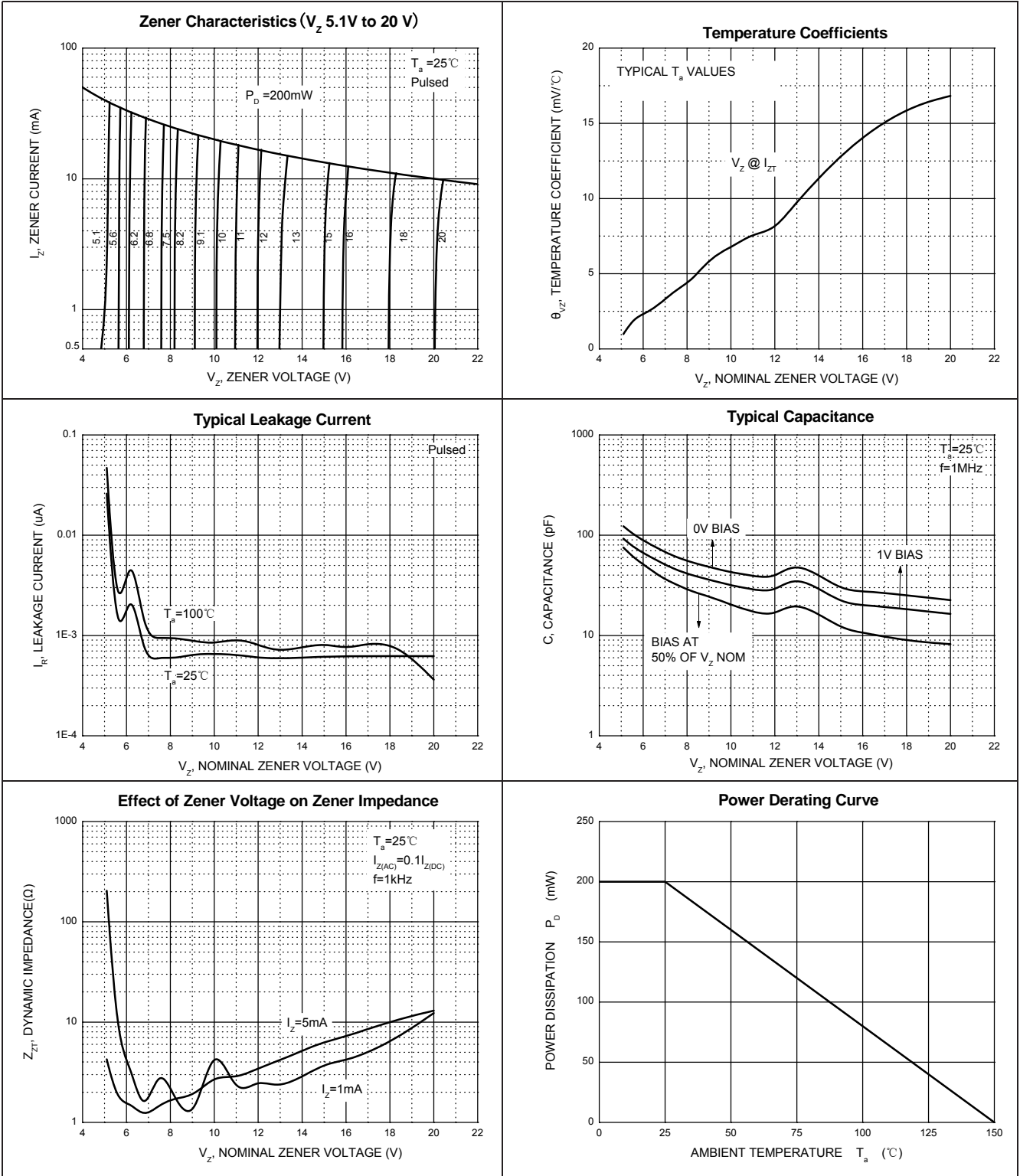
- 1) Device mounted on ceramic PCB: 7.6mm x 9.4mm x 0.87mm with pad areas 25mm<sup>2</sup>
- 2) Short duration test pulse used to minimize self-heating effect
- 3) f=1KHz

**Electrical Characteristics**

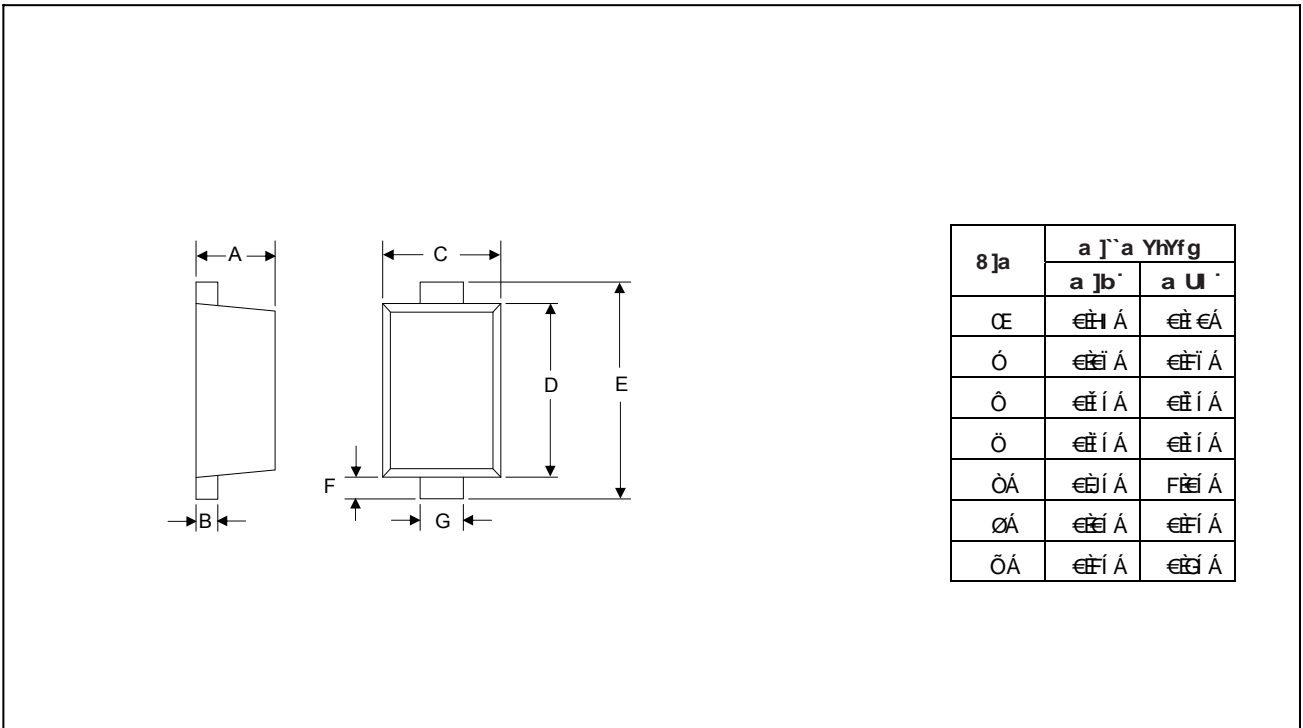
 (T<sub>A</sub> = 25 °C unless otherwise specified)

Device Type	V <sub>Z</sub> @ I <sub>ZT</sub> (Volts)			I <sub>ZT</sub> (mA)	Z <sub>ZT</sub> @ I <sub>ZT</sub> (Ω) Max	I <sub>ZK</sub> (mA)	Z <sub>ZK</sub> @ I <sub>ZK</sub> (Ω) Max	I <sub>R</sub> @ V <sub>R</sub> (μA) Max	V <sub>R</sub> (Volts)
	Min	Nom	Max						
CZ9D2V4C	2.28	2.4	2.52	5	100	1	600	50	1
CZ9D2V7C	2.57	2.7	2.84	5	100	1	600	20	1
CZ9D3V0C	2.85	3.0	3.15	5	95	1	600	10	1
CZ9D3V3C	3.14	3.3	3.47	5	95	1	600	5	1
CZ9D3V6C	3.42	3.6	3.78	5	90	1	600	5	1
CZ9D3V9C	3.71	3.9	4.10	5	90	1	600	3	1
CZ9D4V3C	4.09	4.3	4.52	5	90	1	600	3	1
CZ9D4V7C	4.47	4.7	4.94	5	80	1	500	3	2
CZ9D5V1C	4.85	5.1	5.36	5	60	1	480	2	2
CZ9D5V6C	5.32	5.6	5.88	5	40	1	400	1	2
CZ9D6V2C	5.89	6.2	6.51	5	10	1	150	3	4
CZ9D6V8C	6.46	6.8	7.14	5	15	1	80	2	4
CZ9D7V5C	7.13	7.5	7.88	5	15	1	80	1	5
CZ9D8V2C	7.79	8.2	8.61	5	15	1	80	0.7	5
CZ9D9V1C	8.65	9.1	9.56	5	15	1	100	0.5	6
CZ9D10C	9.50	10	10.50	5	20	1	150	0.2	7
CZ9D11C	10.45	11	11.55	5	20	1	150	0.1	8
CZ9D12C	11.40	12	12.60	5	25	1	150	0.1	8
CZ9D13C	12.35	13	13.65	5	30	1	170	0.1	8
CZ9D15C	14.25	15	15.75	5	30	1	200	0.1	10.5
CZ9D16C	15.20	16	16.80	5	40	1	200	0.1	11.2
CZ9D18C	17.10	18	18.90	5	45	1	225	0.1	12.6
CZ9D20C	19.00	20	21.00	5	55	1	225	0.1	14.0
CZ9D22C	20.90	22	23.10	5	55	1	250	0.1	15.4
CZ9D24C	22.80	24	25.20	5	70	1	250	0.1	16.8
CZ9D27C	25.65	27	28.35	2	80	0.5	300	0.1	18.9
CZ9D30C	28.50	30	31.50	2	80	0.5	300	0.1	21.0
CZ9D33C	31.35	33	34.65	2	80	0.5	325	0.1	23.1
CZ9D36C	34.20	36	37.80	2	90	0.5	350	0.1	25.2
CZ9D39C	37.05	39	40.95	2	130	0.5	350	0.1	27.3

**Typical Characteristics** ( $T_{amb} = 25\text{ }^{\circ}\text{C}$  unless otherwise specified)



### Package Dimensions



### Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
CZ9D2V4C thru CZ9D39C	SOD-923	Tape and reel	8000pcs / reel	EIA STD RS-481

### Revision history

Date	Revision	Changes
23-May-2020	1.0	Initial release

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