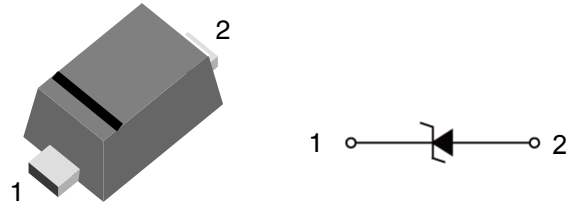


Zener Diode in SOD-923

Features

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



Mechanical Data

- **Case:** SOD-923 (plastic package).
Lead free; RoHS compliant; Halogen free
- **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

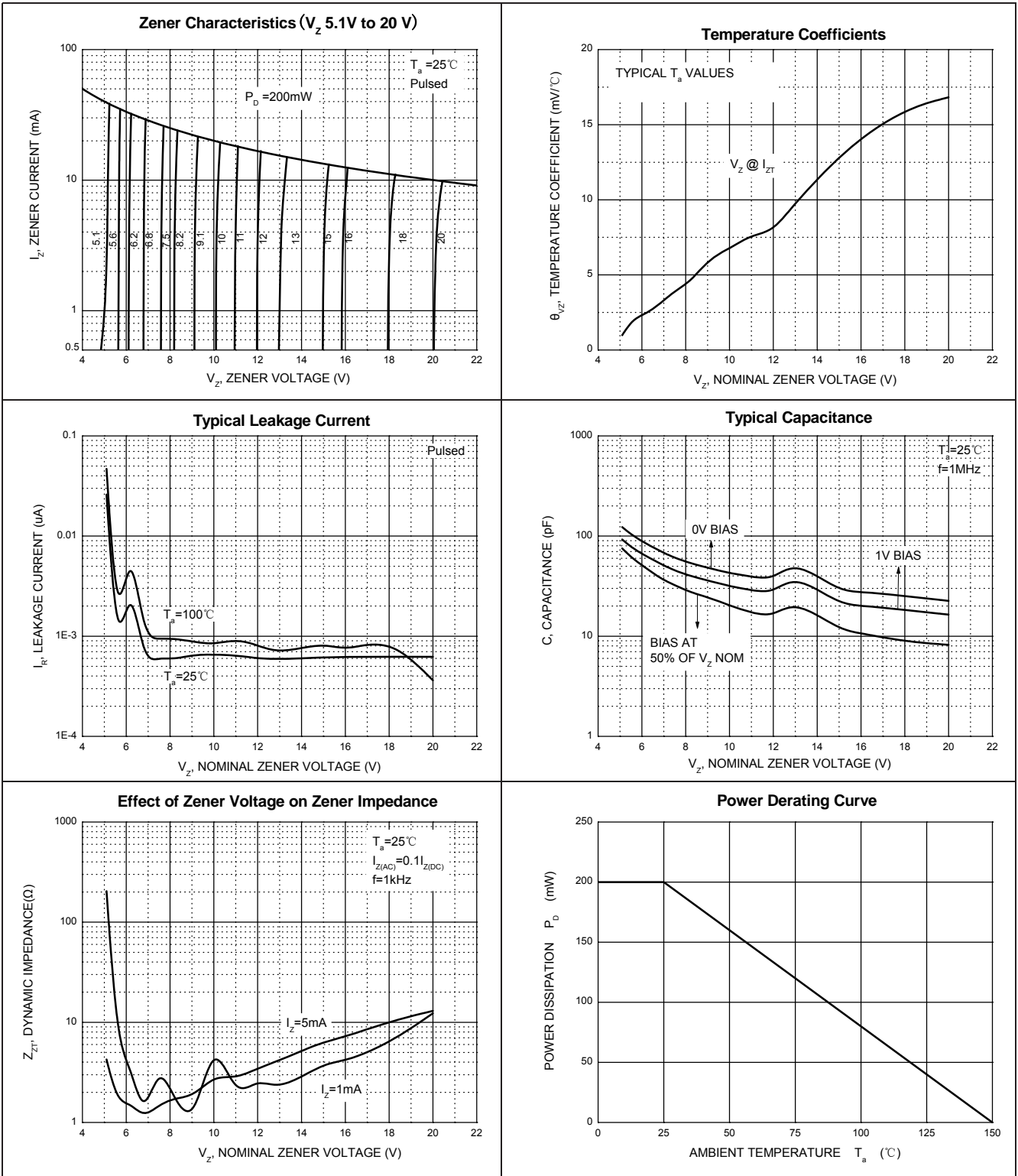
- 1) Device mounted on ceramic PCB: 7.6mm x 9.4mm x 0.87mm with pad areas 25mm²
- 2) Short duration test pulse used to minimize self-heating effect
- 3) f=1KHz

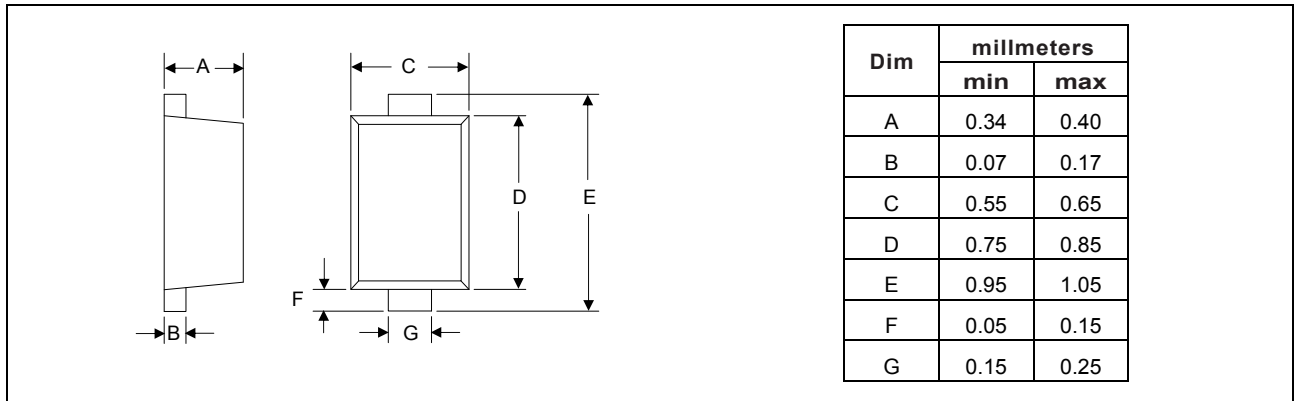
Electrical Characteristics

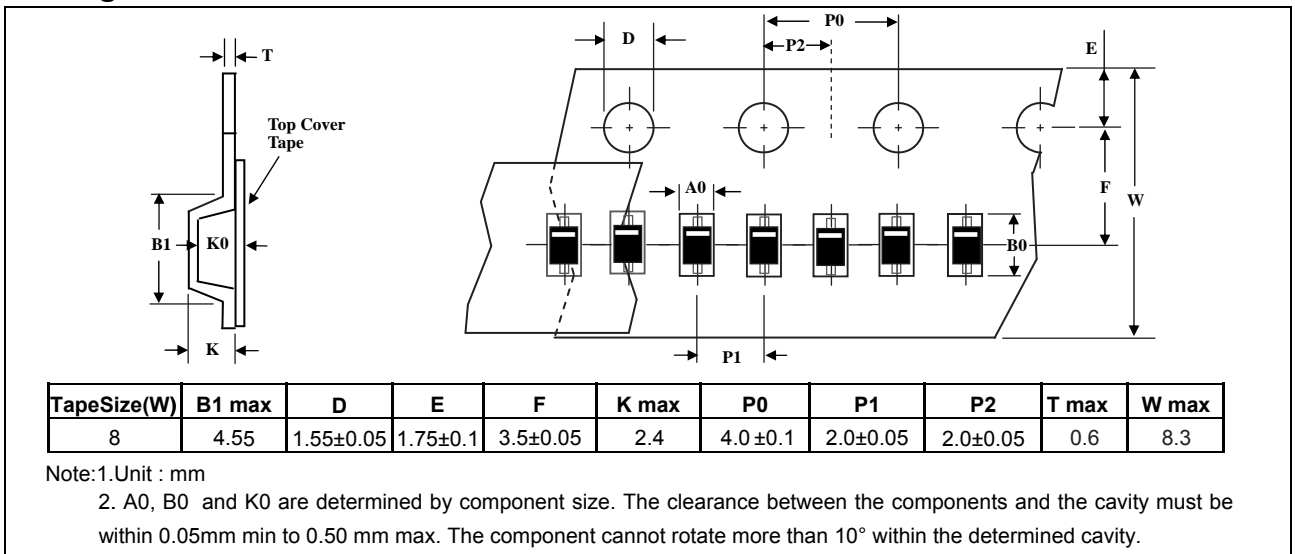
 (T_A = 25 °C unless otherwise specified)

Device Type	V _Z @ I _{ZT} (Volts)			I _{ZT} (mA)	Z _{ZT} @ I _{ZT} (Ω) Max	I _{ZK} (mA)	Z _{ZK} @ I _{ZK} (Ω) Max	I _R @ V _R (μA) Max	V _R (Volts)
	Min	Nom	Max						
CZ9D2V4B	2.35	2.4	2.45	5	100	1	600	50	1
CZ9D2V7B	2.65	2.7	2.75	5	100	1	600	20	1
CZ9D3V0B	2.94	3.0	3.06	5	95	1	600	10	1
CZ9D3V3B	3.23	3.3	3.37	5	95	1	600	5	1
CZ9D3V6B	3.53	3.6	3.67	5	90	1	600	5	1
CZ9D3V9B	3.82	3.9	3.98	5	90	1	600	3	1
CZ9D4V3B	4.21	4.3	4.39	5	90	1	600	3	1
CZ9D4V7B	4.61	4.7	4.79	5	80	1	500	3	2
CZ9D5V1B	5.00	5.1	5.20	5	60	1	480	2	2
CZ9D5V6B	5.49	5.6	5.71	5	40	1	400	1	2
CZ9D6V2B	6.08	6.2	6.32	5	10	1	150	3	4
CZ9D6V8B	6.66	6.8	6.94	5	15	1	80	2	4
CZ9D7V5B	7.35	7.5	7.65	5	15	1	80	1	5
CZ9D8V2B	8.04	8.2	8.36	5	15	1	80	0.7	5
CZ9D9V1B	8.92	9.1	9.28	5	15	1	100	0.5	6
CZ9D10B	9.80	10	10.20	5	20	1	150	0.2	7
CZ9D11B	10.78	11	11.22	5	20	1	150	0.1	8
CZ9D12B	11.76	12	12.24	5	25	1	150	0.1	8
CZ9D13B	12.74	13	13.26	5	30	1	170	0.1	8
CZ9D15B	14.70	15	15.30	5	30	1	200	0.1	10.5
CZ9D16B	15.68	16	16.32	5	40	1	200	0.1	11.2
CZ9D18B	17.64	18	18.36	5	45	1	225	0.1	12.6
CZ9D20B	19.60	20	20.40	5	55	1	225	0.1	14.0
CZ9D22B	21.56	22	22.44	5	55	1	250	0.1	15.4
CZ9D24B	23.52	24	24.48	5	70	1	250	0.1	16.8
CZ9D27B	26.46	27	27.54	2	80	0.5	300	0.1	18.9
CZ9D30B	29.40	30	30.60	2	80	0.5	300	0.1	21.0
CZ9D33B	32.34	33	33.66	2	80	0.5	325	0.1	23.1
CZ9D36B	35.28	36	36.72	2	90	0.5	350	0.1	25.2
CZ9D39B	38.22	39	39.78	2	130	0.5	350	0.1	27.3

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



Package Dimensions

Pad Dimensions

Package Informations

Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
CZ9D2V4B thru CZ9D39B	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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