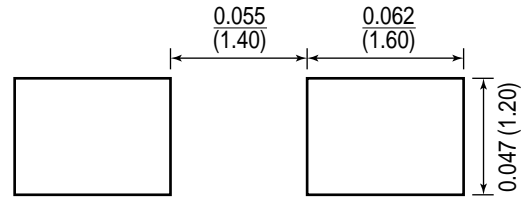
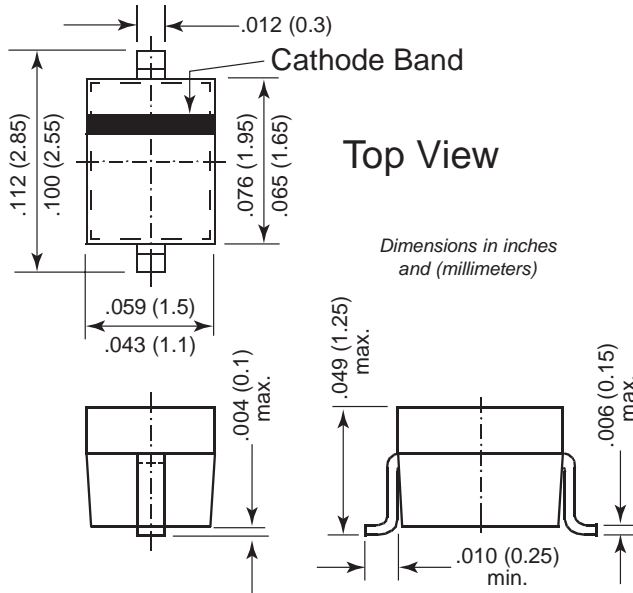




*New Product*

**SOD-323**

**Mounting Pad Layout**



**Mechanical Data**

- Case:** SOD-323 Plastic Package
- Weight:** Approx. 0.004g
- Marking Codes:** See table on next page
- Packaging Codes/Options:**
  - D5/10K per 13" reel (8mm tape)
  - D6/3K per 7" reel (8mm tape)

**Features**

- Silicon Planar Power Zener Diodes
- Low Zener impedance and low leakage current
- Popular in Asian designs
- Compact surface mount device
- Ideal for automated mounting
- Complies with IEC 61000-4-2 for ESD protection

**Maximum Ratings and Thermal Characteristics** (TA = 25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Power Dissipation	Pd	200	mW
Junction Temperature	Tj	150	°C
Storage Temperature Range	Tstg	-55 to + 150	°C

**Electrical Characteristics** (T<sub>A</sub> = 25°C unless otherwise noted)

Type	Marking Code	Zener Voltage V <sub>Z</sub> (V) <sup>(1)</sup>		I <sub>ZT</sub> (mA)	Reverse Current		Dynamic Resistance		ESD-Capability <sup>(2)</sup> (kV) (min)
		min	max		I <sub>R(max)</sub> (μA)	V <sub>RT</sub> (V)	r <sub>d(max)</sub> (Ω)	I <sub>ZT</sub> (mA)	
GTZ5.1	G1	4.84	5.37	5	5	1.5	130	5	30
GTZ5.6	G2	5.31	5.92	5	5	2.5	80	5	30
GTZ6.2	G3	5.86	6.53	5	2	3.0	50	5	30
GTZ6.8	G4	6.47	7.14	5	2	3.5	30	5	30
GTZ7.5	G5	7.06	7.84	5	2	4.0	30	5	30
GTZ8.2	G6	7.76	8.64	5	2	5.0	30	5	30
GTZ9.1	G7	8.56	9.55	5	2	6.0	30	5	30
GTZ10	G8	9.45	10.55	5	2	7.0	30	5	30

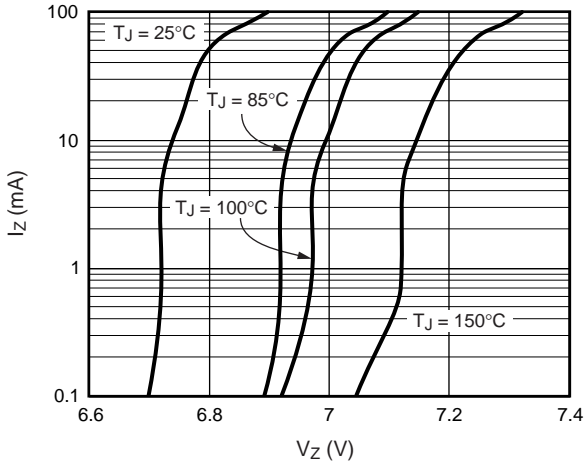
**Notes:**

(1) Tested with pulse (PW = 40ms).

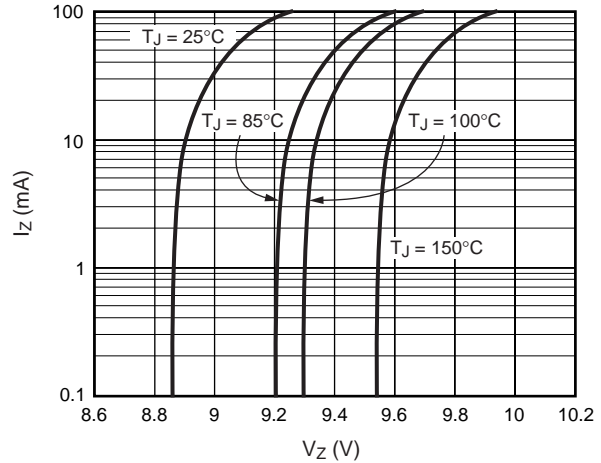
(2) C = 150pF, R = 330 ohms, Both forward and reverse direction 10 pulse (contact mode)

**Ratings and Characteristic Curves\*** ( $T_A = 25^\circ\text{C}$  unless otherwise noted)

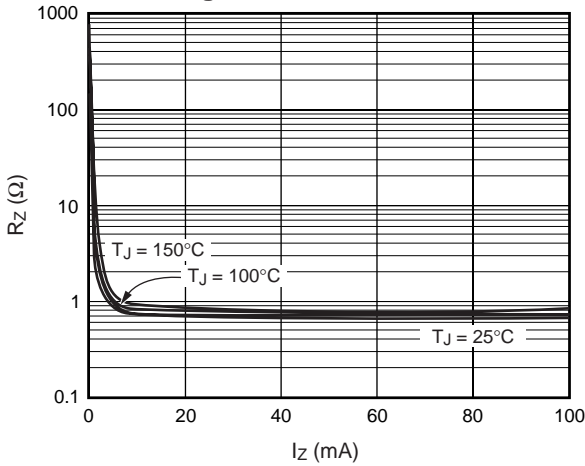
**Fig. 1 –  $V_Z$  vs  $I_Z$  (GTZ6V8)**



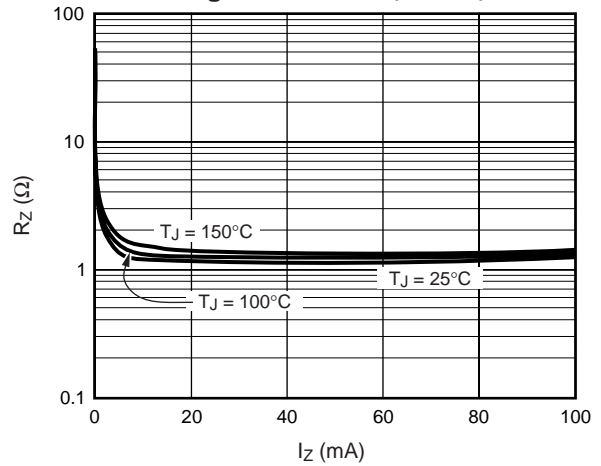
**Fig. 2 –  $V_Z$  vs  $I_Z$  (GTZ9V1)**



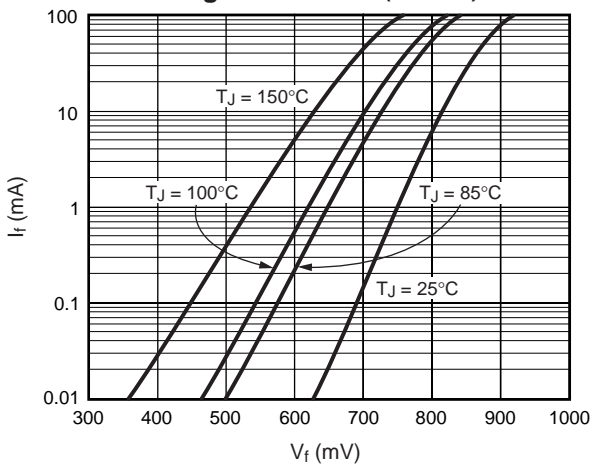
**Fig. 3 –  $R_Z$  vs  $I_Z$  (GTZ6V8)**



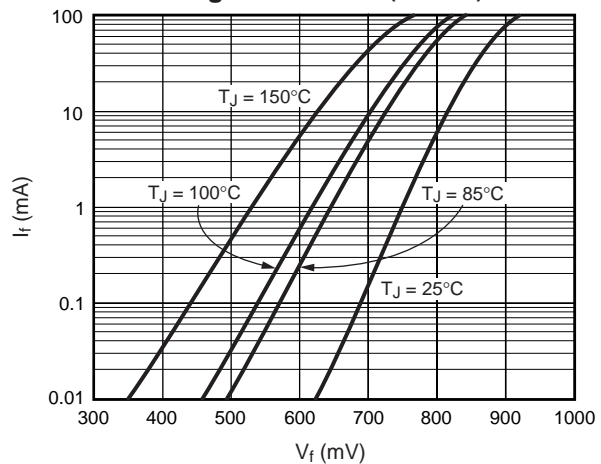
**Fig. 4 –  $R_Z$  vs  $I_Z$  (GTZ9V1)**



**Fig. 5 –  $V_F$  vs  $I_F$  (GTZ6V8)**



**Fig. 6 –  $V_F$  vs  $I_F$  (GTZ9V1)**



\*Curves for other voltages available upon request