

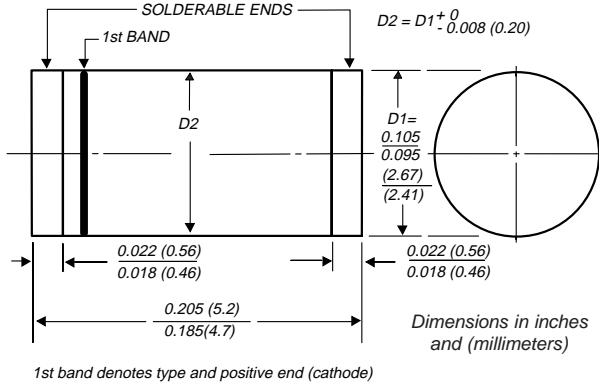


Surface Mount Glass Passivated Zeners

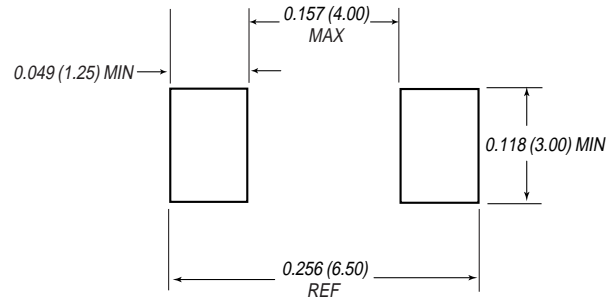


DO-213AB

Zener Voltage 100 to 200V  
Steady State Power 1.0W



Mounting Pad Layout



Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- For surface mount applications
- Glass passivated junction
- Low Zener impedance
- Low regulation factor
- High temperature soldering guaranteed: 250°C/10 seconds at terminals

Mechanical Data

- Case:** JEDEC DO-213AB molded plastic body over passivated junction
- Terminals:** Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity:** Red band denotes Zener diode and positive end (cathode)
- Mounting Position:** Any
- Weight:** 0.0046 oz., 0.116 g
- Packaging codes/options:**  
26/5K per 13" Reel (12mm tape), 60K/box  
46/1.5K per 7" Reel (12mm tape), 30K/box

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

Operating junction and storage temperature range: TJ, TSTG: -55°C to +150°C

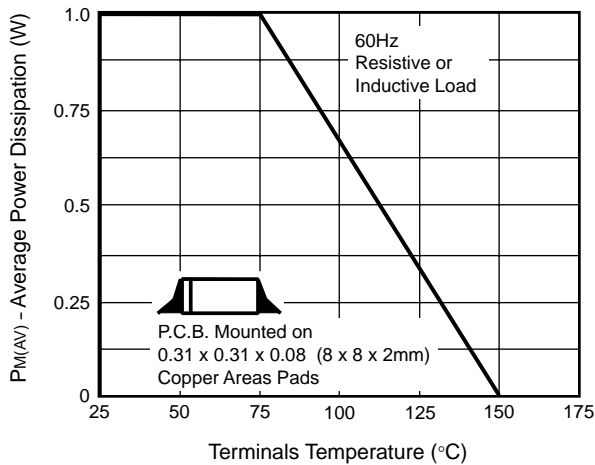
Type	Nominal Zener Voltage at IZT (Note 1) Vz (V)	Test Current IZT (mA)	Maximum Zener Dynamic Impedance			Maximum DC Reverse Leakage Current at VR		Maximum Surge Current (Note 2) IRM (mAdc)	Max. Instantaneous Forward Voltage at 200mA VF (V)
			ZT at IZT (Ω)	ZK at IZK		IR (μA)	VR (V)		
				(Ω)	(mA)				
ZGL41-100	100	3.7	250	3100	0.25	1.0	76.0	10.0	1.5
ZGL41-110	110	3.4	300	4000	0.25	1.0	83.6	9.1	1.5
ZGL41-120	120	3.1	380	4500	0.25	1.0	91.2	8.3	1.5
ZGL41-130	130	2.9	450	5000	0.25	1.0	98.8	7.7	1.5
ZGL41-140	140	2.7	525	5500	0.25	1.0	106.4	7.1	1.5
ZGL41-150	150	2.5	600	6000	0.25	1.0	114.0	6.7	1.5
ZGL41-160	160	2.3	700	6500	0.25	1.0	121.6	6.3	1.5
ZGL41-170	170	2.2	800	6750	0.25	1.0	129.2	5.9	1.5
ZGL41-180	180	2.1	900	7000	0.25	1.0	136.9	5.6	1.5
ZGL41-190	190	2.0	1050	7500	0.25	1.0	144.4	5.3	1.5
ZGL41-200	200	1.9	1200	8000	0.25	1.0	152.0	5.0	1.5

Notes:

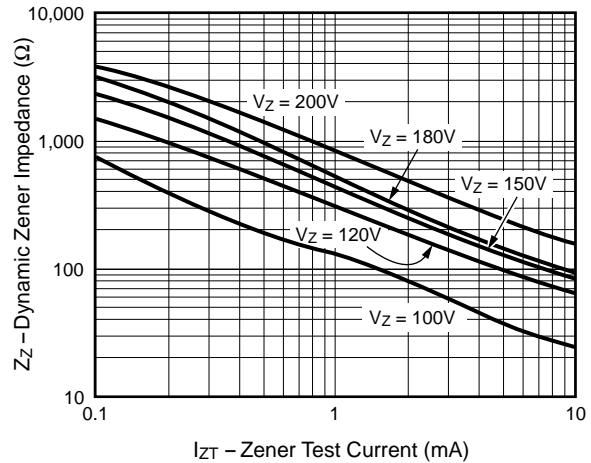
- (1) Standard voltage tolerance is ±10%, Suffix A = ±5%
- (2) Surge current is a non-repetitive, 8.3ms pulse width square wave or equivalent sine-wave superimposed on IZT per JEDEC Method
- (3) Maximum steady state power dissipation is 1.0 watt at TT = 75°C

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

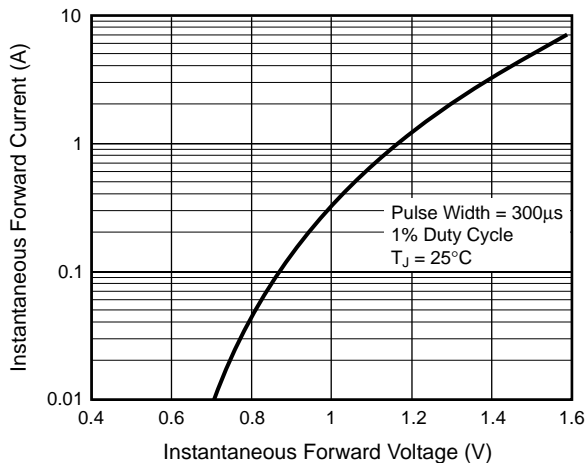
**Fig. 1 – Maximum Continuous Power Dissipation**



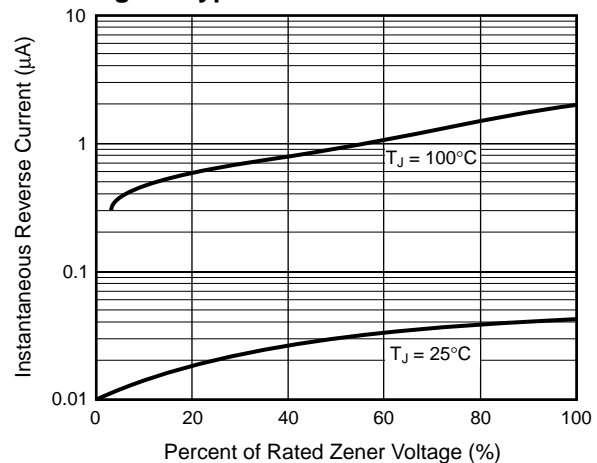
**Fig. 2 – Typical Zener Impedance**



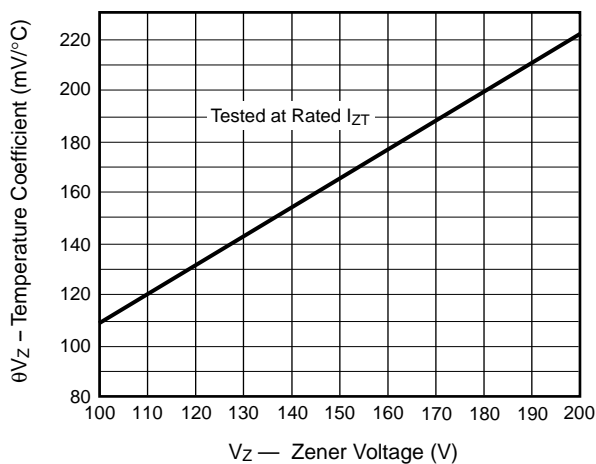
**Fig. 3 – Typical Instantaneous Forward Characteristics**



**Fig. 4 – Typical Reverse Characteristics**



**Fig. 5 – Steady State Power Derating Curve**



**Fig. 6 – Typical Zener Voltage**

