



ZGL41-100 thru ZGL41-200A

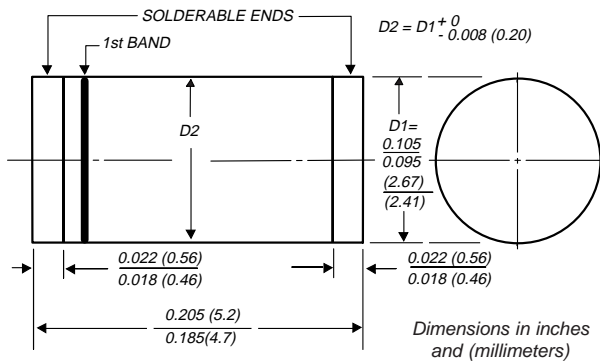
Vishay Semiconductors
formerly General Semiconductor

Surface Mount Glass Passivated Zeners



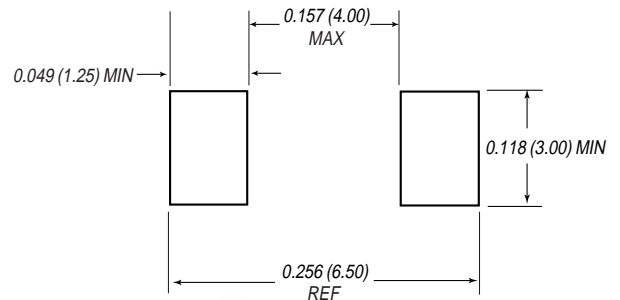
DO-213AB

Zener Voltage 100 to 200V
Steady State Power 1.0W



1st band denotes type and positive end (cathode)

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 (T_A = 25°C unless otherwise noted)

Operating junction and storage temperature range: T_J, T_{STG}: -55°C to +150°C

Type	Nominal Zener Voltage at I _{ZT} (Note 1) V _Z (V)	Test Current I _{ZT} (mA)	Maximum Zener Dynamic Impedance			Maximum DC Reverse Leakage Current at V _R		Maximum Surge Current (Note 2) I _{RM} (mA _{dc})	Max. Instantaneous Forward Voltage at 200mA V _F (V)
			Z _{1T} at I _{ZT} (Ω)	Z _{1K} at I _{ZK}		I _R (μA)	V _R (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 I_{ZT} per JEDEC Method
- (3) Maximum steady state power dissipation is 1.0 watt at T_T = 75°C

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

Fig. 1 – Maximum Continuous Power Dissipation

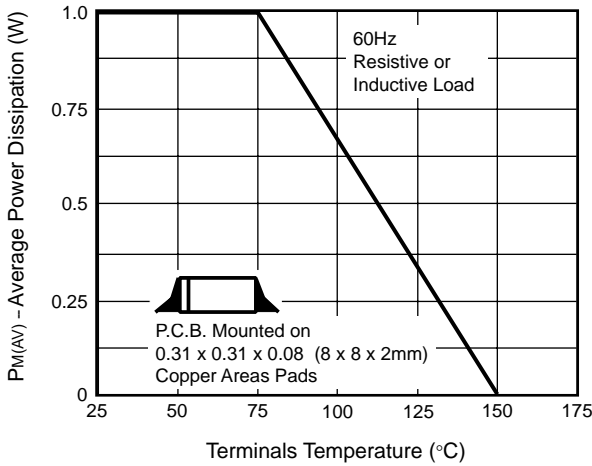


Fig. 2 – Typical Zener Impedance

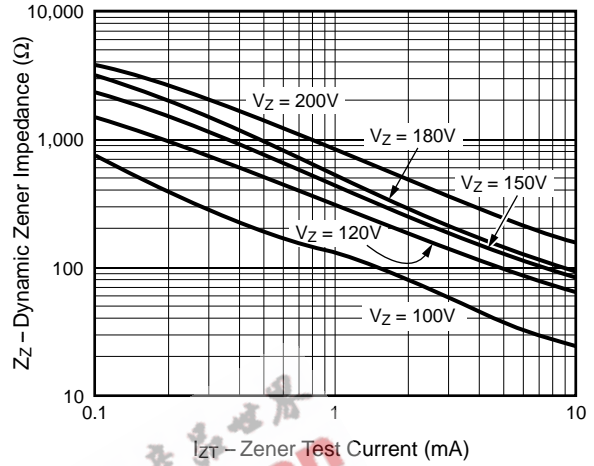


Fig. 3 – Typical Instantaneous Forward Characteristics

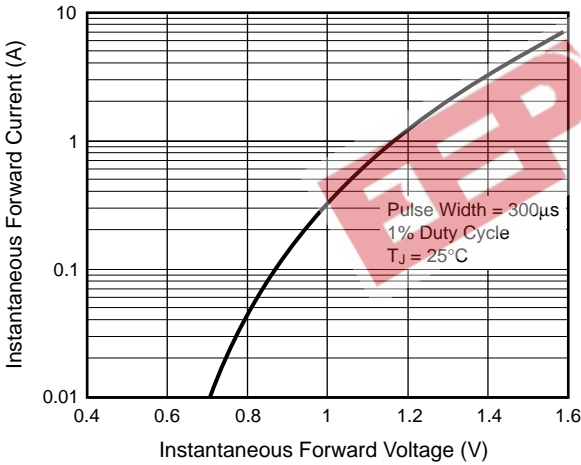


Fig. 4 – Typical Reverse Characteristics

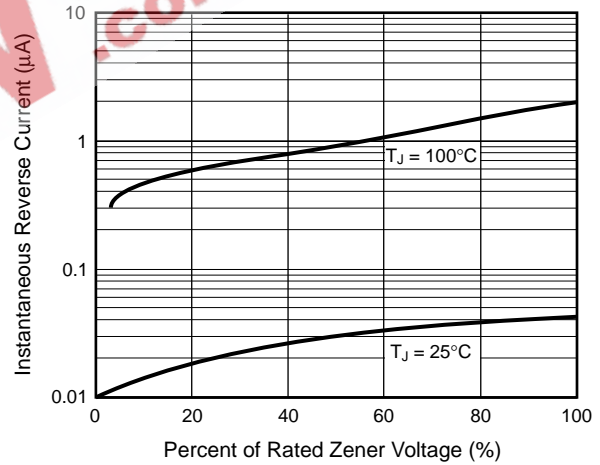


Fig. 5 – Steady State Power Derating Curve

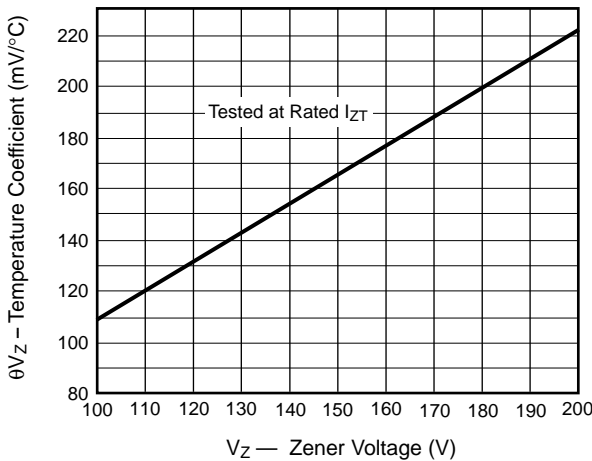


Fig. 6 – Typical Zener Voltage

