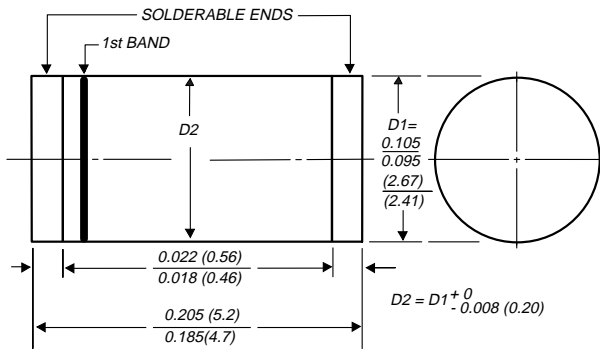


# ZGL41-100 THRU ZGL41-200A

**SURFACE MOUNT GLASS PASSIVATED ZENER**  
**Zener Voltage - 100 to 200 Volts**      **Steady State Power - 1.0 Watt**

**DO-213AB**



1st band denotes type and positive end (cathode)

Dimensions in inches and (millimeters)

## 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 ounce, 0.116 grams

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

**OPERATING JUNCTION AND STORAGE TEMPERATURE RANGE: T<sub>J</sub>, T<sub>STG</sub>: -55°C to +150°C**

TYPE	NOMINAL ZENER VOLTAGE at I <sub>ZT</sub> (NOTE 1) (V <sub>Z</sub> ) (Volts)	TEST CURRENT (I <sub>ZT</sub> ) (mA)	MAXIMUM ZENER DYNAMIC IMPEDANCE			MAXIMUM DC REVERSE LEAKAGE CURRENT at V <sub>R</sub>		MAXIMUM SURGE CURRENT (NOTE 2) (I <sub>RM</sub> ) (mAdc)	MAXIMUM INSTANTANEOUS FORWARD VOLTAGE at 200mA (V <sub>F</sub> ) (VOLTS)
			Z <sub>ZT</sub> at I <sub>ZT</sub> (Ohms)	Z <sub>ZK</sub> at I <sub>ZK</sub> (Ohms)	I <sub>ZK</sub> (mA)	(I <sub>R</sub> ) (μA)	(V <sub>R</sub> ) (Volts)		
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

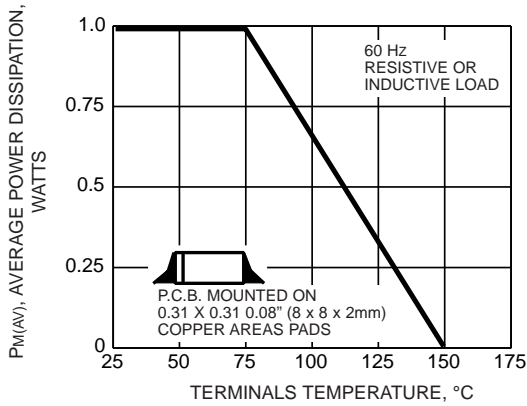
**NOTES:**

- (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<sub>ZT</sub> per JEDEC Method
- (3) Maximum steady state power dissipation is 1.0 watt at T<sub>T</sub>=75°C

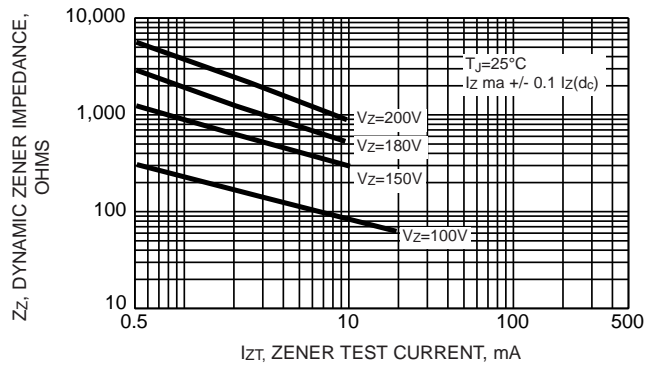


# RATINGS AND CHARACTERISTIC CURVES ZGL41-100 THRU ZGL41-200A

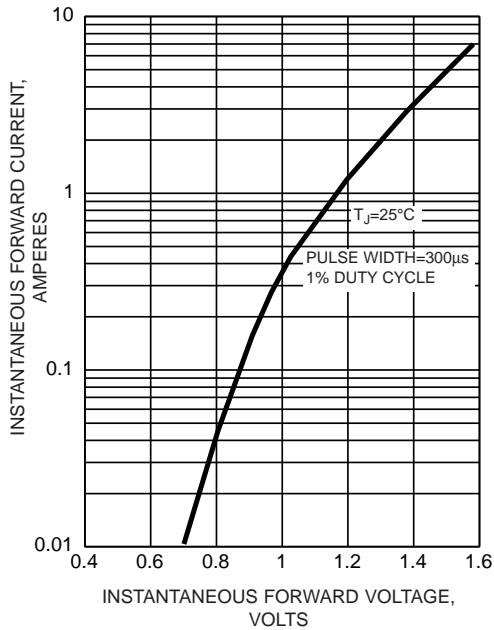
**FIG. 1 - MAXIMUM CONTINUOUS POWER DISSIPATION**



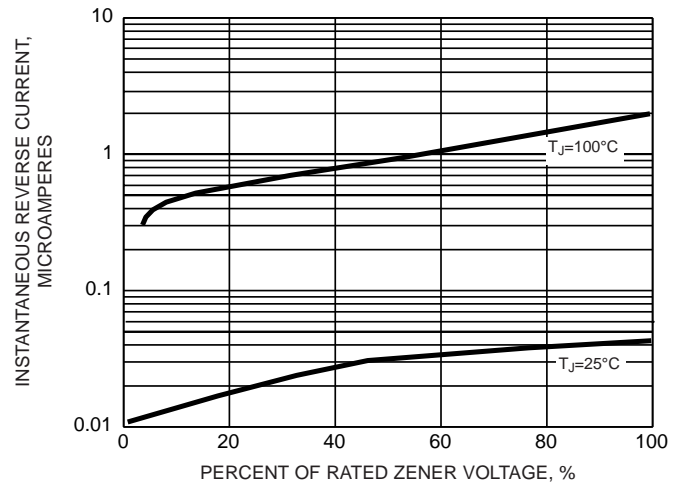
**FIG. 2 - TYPICAL ZENER IMPEDANCE**



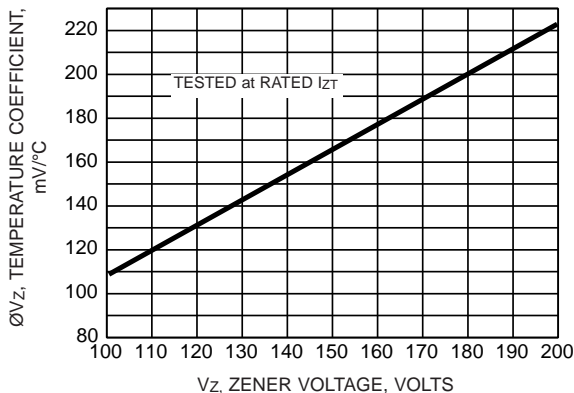
**FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS**



**FIG. 4 - TYPICAL REVERSE CHARACTERISTICS**



**FIG. 5 - TYPICAL TEMPERATURE COEFFICIENTS**



**FIG. 6 - TYPICAL ZENER VOLTAGE**

