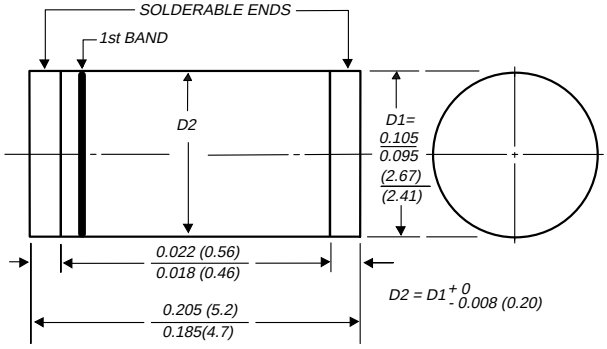
ZGL41-100 THRU ZGL41-200A

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_J, T_{STG}: -55°C to +150°C

TYPE	NOMINAL ZENER VOLTAGE at I_{ZT} (NOTE 1) (V_Z)	TEST CURRENT (I_{ZT})	MAXIMUM ZENER DYNAMIC IMPEDANCE			MAXIMUM DC REVERSE LEAKAGE CURRENT at V_R		MAXIMUM SURGE CURRENT (NOTE 2)	MAXIMUM INSTANTANEOUS FORWARD VOLTAGE at 200mA
			Z_{ZT} at I_{ZT}	Z_{ZK} at	I_{ZK}	(I_R)	(V_R)	(I_{RM})	(V_F)
	(Volts)	(mA)	(Ohms)	(Ohms)	(mA)	(μA)	(Volts)	(mAdc)	(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_{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 ZGL41-100 THRU ZGL41-200A

FIG. 1 - MAXIMUM CONTINUOUS POWER DISSIPATION

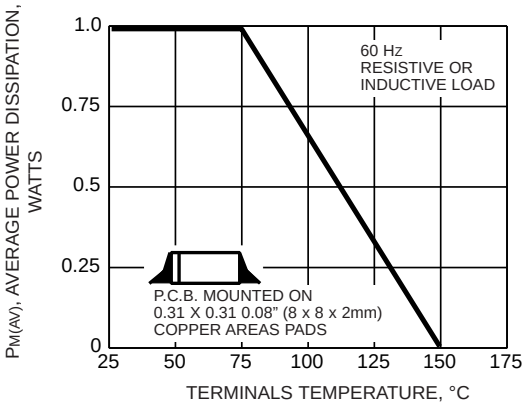


FIG. 2 - TYPICAL ZENER IMPEDANCE

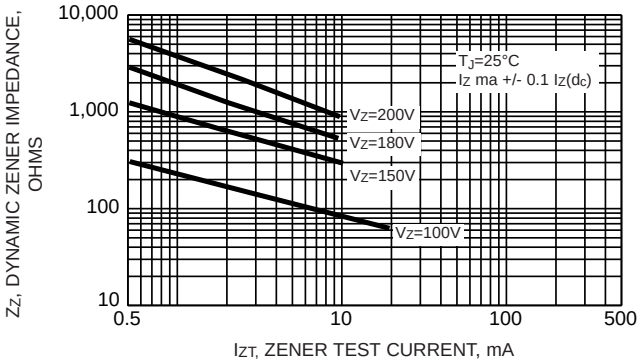


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

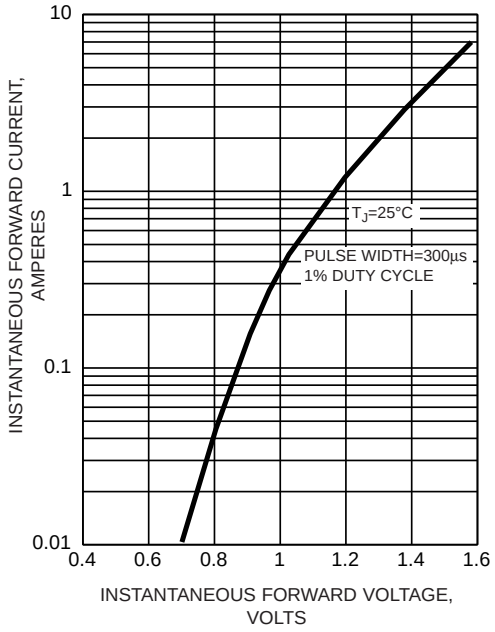


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

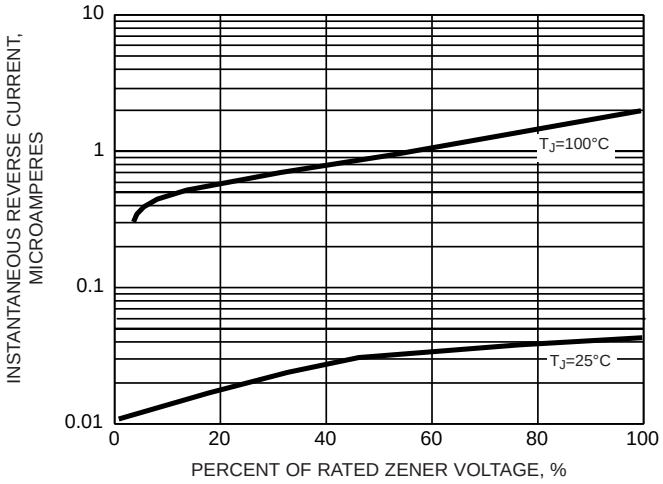


FIG. 5 - TYPICAL TEMPERATURE COEFFICIENTS

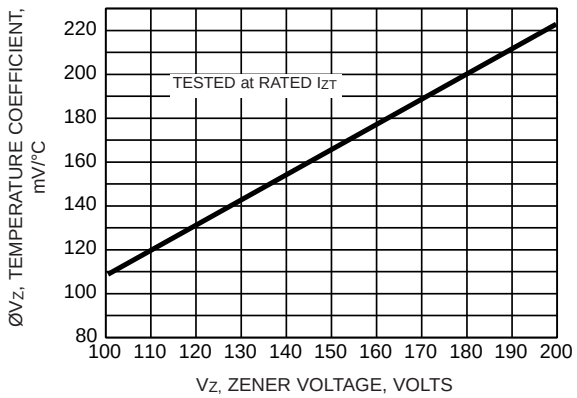
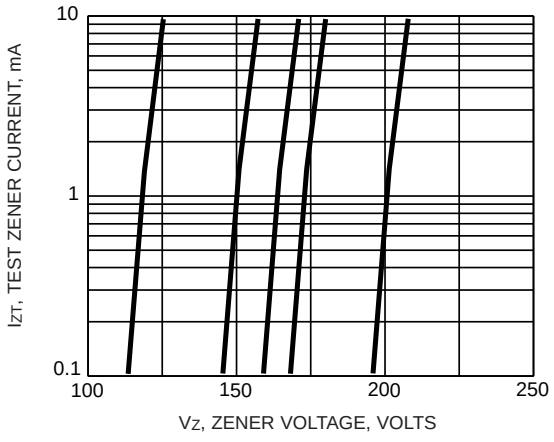


FIG. 6 - TYPICAL ZENER VOLTAGE



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