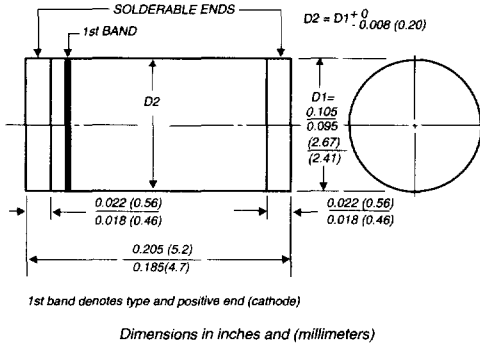


Surface Mount Glass Passivated Zeners

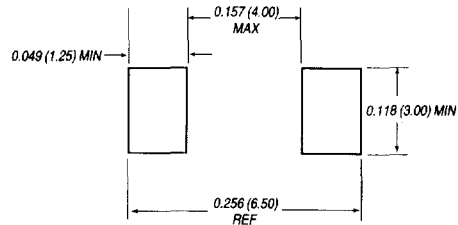
Zener Voltage 6.2 to 91V
Steady State Power 1.0W



DO-213AB



Mounting Pad Layout



Mechanical Data

Case: JEDEC DO-213AB molded plastic over glass 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: 0.0046oz., 0.116g

Packaging codes/options:

26/5K per 13" Reel (12mm tape), 60K/box
46/1.5K per 7" Reel (12mm tape), 30K/box

Features

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

Maximum Ratings and Thermal 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 (Volts)	Test Current IzT (mA)	Maximum Dynamic Impedance			Maximum DC Reverse Leakage Current		Maximum Zener Current (Note 2) IzM (mA _{pk})	Maximum Forward Voltage at 200mA Vf (V)
			Zzr at IzT (Ω)	Zzk at Izk (Ω)	Izk (mA)	Ir (μA)	Vr (V)		
GLL4735	6.2	41.0	2.0	700	1.0	50.0	3.0	730.0	1.2
GLL4736	6.8	37.0	3.5	700	1.0	10.0	4.0	660.0	1.2
GLL4737	7.5	34.0	4.0	700	0.5	10.0	5.0	605.0	1.2
GLL4738	8.2	31.0	4.5	700	0.5	10.0	6.0	550.0	1.2
GLL4739	9.1	28.0	5.0	700	0.5	10.0	7.0	500.0	1.2
GLL4740	10	25.0	7.0	700	0.25	10.0	7.6	454.0	1.2
GLL4741	11	23.0	8.0	700	0.25	5.0	8.4	414.0	1.2
GLL4742	12	21.0	9.0	700	0.25	5.0	9.1	380.0	1.2
GLL4743	13	19.0	10.0	700	0.25	5.0	9.9	344.0	1.2
GLL4744	15	17.0	14.0	700	0.25	5.0	11.4	305.0	1.2

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 T_T = 75°C

12/14/00

GLL4735 thru GLL4763A

Surface Mount Glass Passivated Zeners

Maximum Ratings and Thermal Characteristics (Con't.) (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 (Volts)	Test Current I _{ZT} (mA)	Maximum Dynamic Impedance			Maximum DC Reverse Leakage Current		Maximum Zener Current (Note 2) I _{ZM} (mA _{pk})	Maximum Forward Voltage at 200mA V _F (V)
			Z _T at I _{ZT} (Ω)	Z _{ZK} at I _{ZK} (Ω)	I _{ZK} (mA)	I _R (μA)	V _R (V)		
GLL4745	16	15.5	16.0	700	0.25	5.0	12.2	285.0	1.2
GLL4746	18	14.0	20.0	750	0.25	5.0	13.7	250.0	1.2
GLL4747	20	12.5	22.0	750	0.25	5.0	15.2	225.0	1.2
GLL4748	22	11.5	23.0	750	0.25	5.0	16.7	205.0	1.2
GLL4749	24	10.5	25.0	750	0.25	5.0	18.2	190.0	1.2
GLL4750	27	9.5	35.0	750	0.25	5.0	20.6	170.0	1.2
GLL4751	30	8.5	40.0	1000	0.25	5.0	22.8	150.0	1.2
GLL4752	33	7.5	45.0	1000	0.25	5.0	25.1	135.0	1.2
GLL4753	36	7.0	50.0	1000	0.25	5.0	27.4	125.0	1.2
GLL4754	39	6.5	60.0	1000	0.25	5.0	29.7	115.0	1.2
GLL4755	43	6.0	70.0	1500	0.25	5.0	32.7	110.0	1.2
GLL4756	47	5.5	80.0	1500	0.25	5.0	35.8	95.0	1.2
GLL4757	51	5.0	95.0	1500	0.25	5.0	38.8	90.0	1.2
GLL4758	56	4.5	110.0	2000	0.25	5.0	42.6	80.0	1.2
GLL4759	62	4.0	125.0	2000	0.25	5.0	47.1	70.0	1.2
GLL4760	68	3.7	150.0	2000	0.25	5.0	51.7	65.0	1.2
GLL4761	75	3.3	175.0	2000	0.25	5.0	56.0	60.0	1.2
GLL4762	82	3.0	200.0	3000	0.25	5.0	62.2	55.0	1.2
GLL4763	91	2.8	250.0	3000	0.25	5.0	69.2	50.0	1.2

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

Surface Mount Glass Passivated Zeners

Ratings and Characteristic Curves (T_A = 25°C unless otherwise noted)

Fig. 1 – Maximum Continuous Power Dissipation

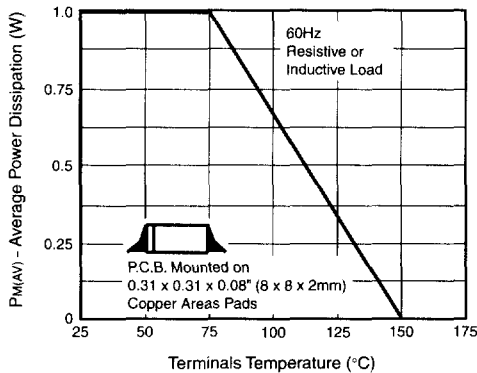


Fig. 2 – Typical Zener Impedance

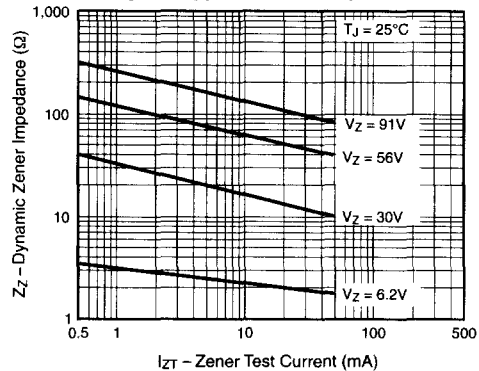


Fig. 3 – Typical Instantaneous Forward Characteristics for GLL4763

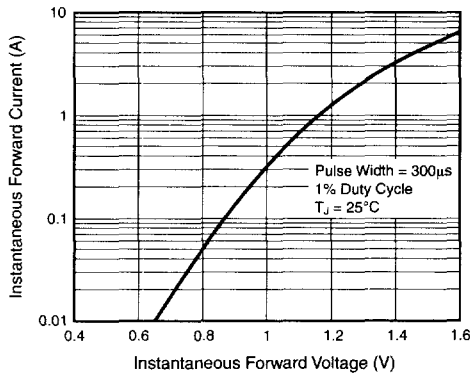


Fig. 4 – Typical Reverse Characteristics

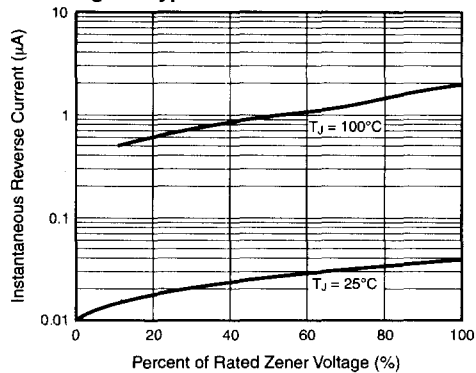


Fig. 5 – Typical Temperature Coefficients

