

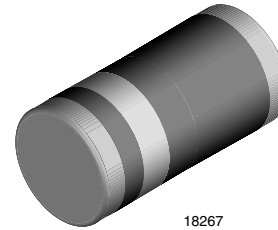
Zener Diodes

Features

- Plastic package has underwriters laboratory flammability classification 94 V-0
- For surface mounted applications
- Glass passivated chip junction
- Low Zener impedance
- Low regulation factor
- High temperature soldering guaranteed: 250 °C/10 s at terminals
- Compliant to RoHS Directive 2002/95/EC and in accordance to WEEE 2002/96/EC



RoHS
COMPLIANT



Mechanical Data

Case: MELF DO-213AB (plastic)

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., 116 mg

Packaging codes/options:

97/5K per 13" plastic reel (12 mm tape)

96/1.5K per 7" plastic reel (12 mm tape)

Base P/N-E3 - RoHS compliant, commercial grade

Absolute Maximum Ratings

$T_{amb} = 25\text{ °C}$, unless otherwise specified

Parameter	Test condition	Symbol	Value	Unit
Zener current (see table "Characteristics")				
Power dissipation		P_{tot}	1 ⁽¹⁾	W

Note

(1) Maximum steady state power dissipation is 1 W at $T_T = 75\text{ °C}$

Thermal Characteristics

$T_{amb} = 25\text{ °C}$, unless otherwise specified

Parameter	Test condition	Symbol	Value	Unit
Thermal resistance junction to ambient air		R_{thJA}	170	°C/W
Junction temperature		T_j	150	°C
Storage temperature		T_{stg}	- 65 to + 150	°C

Electrical Characteristics

Part number	Nominal Zener voltage ⁽¹⁾	Test current	Maximum dynamic impedance			Maximum DC reverse leakage current		Maximum Zener current ⁽²⁾	Maximum forward voltage
	V_Z at I_{ZT}		I_{ZT1}	Z_{ZT} at I_{ZT}	Z_{ZK} at I_{ZK}	I_{ZK}	I_R		
	V	mA	Ω	Ω	mA	μA	V	I_{ZM} mA _{pk}	V_F at 200 mA V
GLL4735	6.2	41	2	700	1	50	3	730	1.2
GLL4736	6.8	37	3.5	700	1	10	4	660	1.2
GLL4737	7.5	34	4	700	0.5	10	5	605	1.2
GLL4738	8.2	31	4.5	700	0.5	10	6	550	1.2
GLL4739	9.1	28	5	700	0.5	10	7	500	1.2
GLL4740	10	25	7	700	0.25	10	7.6	454	1.2
GLL4741	11	23	8	700	0.25	5	8.4	414	1.2
GLL4742	12	21	9	700	0.25	5	9.1	380	1.2
GLL4743	13	19	10	700	0.25	5	9.9	344	1.2
GLL4744	15	17	14	700	0.25	5	11.4	305	1.2
GLL4745	16	15.5	16	700	0.25	5	12.2	285	1.2
GLL4746	18	14	20	750	0.25	5	13.7	250	1.2
GLL4747	20	12.5	22	750	0.25	5	15.2	225	1.2
GLL4748	22	11.5	23	750	0.25	5	16.7	205	1.2
GLL4749	24	10.5	25	750	0.25	5	18.2	190	1.2
GLL4750	27	9.5	35	750	0.25	5	20.6	170	1.2
GLL4751	30	8.5	40	1000	0.25	5	22.8	150	1.2
GLL4752	33	7.5	45	1000	0.25	5	25.1	135	1.2
GLL4753	36	7	50	1000	0.25	5	27.4	125	1.2
GLL4754	39	6.5	60	1000	0.25	5	29.7	115	1.2
GLL4755	43	6	70	1500	0.25	5	32.7	110	1.2
GLL4756	47	5.5	80	1500	0.25	5	35.8	95	1.2
GLL4757	51	5	95	1500	0.25	5	38.8	90	1.2
GLL4758	56	4.5	110	2000	0.25	5	42.6	80	1.2
GLL4759	62	4	125	2000	0.25	5	47.1	70	1.2
GLL4760	68	3.7	150	2000	0.25	5	51.7	65	1.2
GLL4761	75	3.3	175	2000	0.25	5	56	60	1.2
GLL4762	82	3	200	3000	0.25	5	62.2	55	1.2
GLL4763	91	2.8	250	3000	0.25	5	69.2	50	1.2

Notes

⁽¹⁾ Standard voltage tolerance is $\pm 10\%$, suffix A = $\pm 5\%$

⁽²⁾ Surge current is a non-repetitive, 8.3 ms pulse width square wave or equivalent sine-wave superimposed on I_{ZT} per JEDEC method

Typical Characteristics

$T_{amb} = 25\text{ }^{\circ}\text{C}$, unless otherwise specified

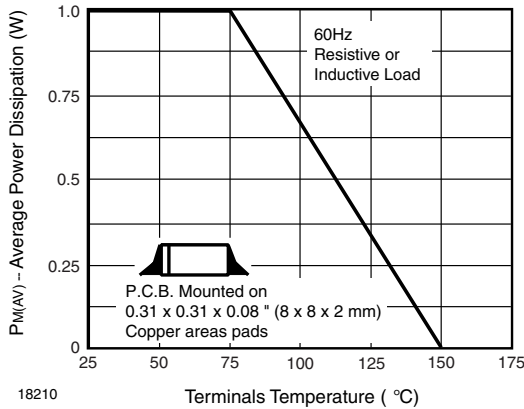


Figure 1. Maximum Continuous Power Dissipation

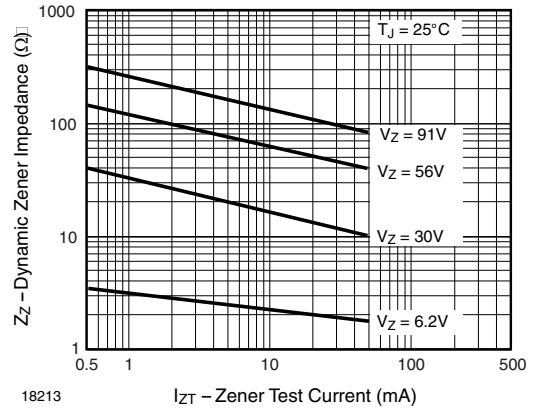


Figure 4. Typical Zener Impedance

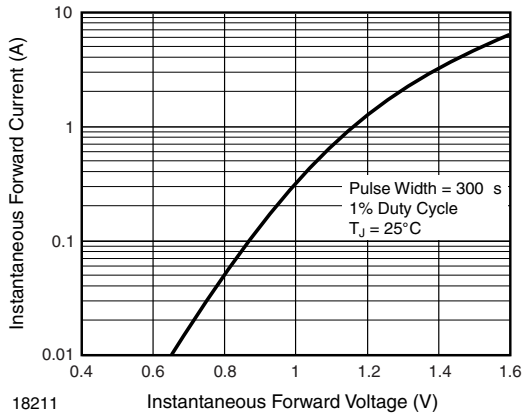


Figure 2. Typical Instantaneous Forward Characteristics for GLL4763

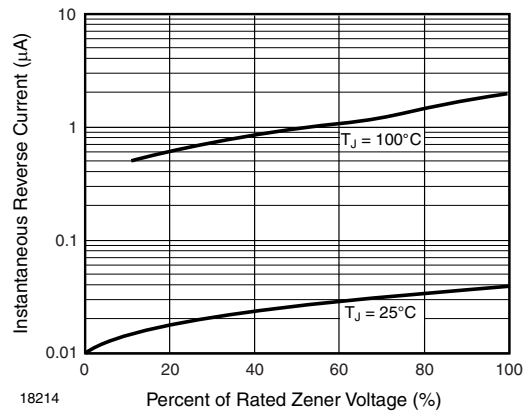


Figure 5. Typical Reverse Characteristics

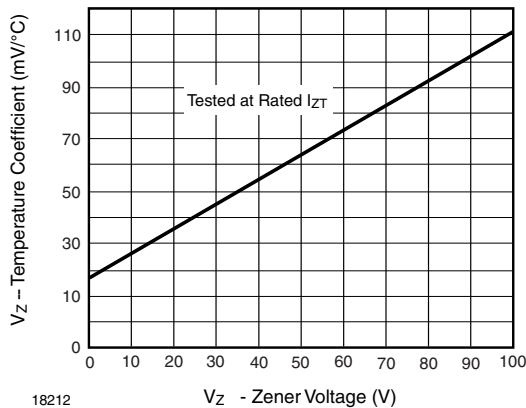


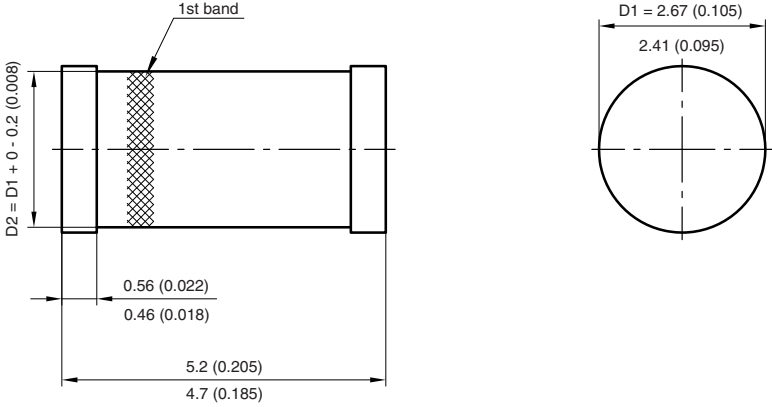
Figure 3. Typical Temperature Coefficients

GLL4735 to GLL4763A



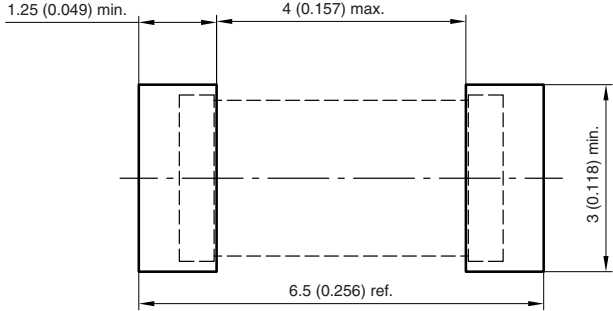
Vishay Semiconductors

Package Dimensions in millimeters (inches): MELF DO-213AB (plastic)



1st band denotes type and positive end (cathode)

Foot print recommendation:



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