

# **Vishay Semiconductors**



### FEATURES

- Plastic package has underwriters laboratory flammability classification UL 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
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

DEVICE NAME	ORDER	TAPED UNITS PER REEL	MINIMUM
ORDERING INFORM	IATION		
Circuit configuration	Single		
V <sub>Z</sub> specification	Pulse current		

mΑ

PACKAGE			
GLL4735 to GLL4763A	GLL4735-E3/96 to GLL4763A-E3/96	1500 (12 mm tape on 7" reel)	1500/box
GLL4735 to GLL4763A	GLL4735-E3/97 to GLL4763A-E3/97	5000 (12 mm tape on 13" reel)	5000/box

PACKAGE				
PACKAGE NAME	WEIGHT	MOLDING COMPOUND FLAMMABILITY RATING	MOISTURE SENSITIVITY LEVEL	SOLDERING CONDITIONS
MELF (DO-213AB)	116 mg	UL 94 V-0	MSL level 1 (according J-STD-020)	Peak temperature max. 260 °C

ABSOLUTE MAXIM	<b>MUM RATINGS</b> ( $T_{amb} = 25 \text{ °C}$ , unless otherwise specified)				
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT	
Power dissipation	Maximum steady state power dissipation is 1 W at $T_T$ = 75 °C	P <sub>tot</sub>	1000	mW	
Zener current	see table "Characteristics"				
Junction to ambient air		R <sub>thJA</sub>	170	°C/W	
Junction temperature		Tj	150	°C	
Storage temperature range		T <sub>stg</sub>	-65 to +150	°C	

 Rev. 1.8, 06-Mar-2019
 1
 Document Number: 85781

 For technical questions within your region:
 DiodesAmericas@vishay.com, DiodesAsia@vishay.com, DiodesEurope@vishay.com

 THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE. THE PRODUCTS DESCRIBED HEREIN AND THIS DOCUMENT ARE SUBJECT TO SPECIFI
 Downloaded From Oneyac.com

 W.vishay.com/doc?91000
 W.vishay.com/doc?91000



VALUE

6.2 to 91

2.8 to 41

**DESIGN SUPPORT TOOLS AVAILABLE** 

**PRIMARY CHARACTERISTICS** 



PARAMETER

V<sub>Z</sub> range nom.

Test current IZT





COMPLIANT

**ORDER QUANTITY** 

1.2

1.2

1.2

1.2

1.2

1.2

1.2

1.2

1.2

1.2

1.2

1.2

1.2

1.2

1.2

1.2

1.2

1.2

1.2

1.2

1.2

1.2

	www.vishay.com						Visha	y Semicor	nductors
	AL CHARACTER	ISTICS	$(T_{amb} = 2)$	25 °C, u	inless o	therwise spe	ecified)		
ZENER VOLTAGE RANGE <sup>(1)</sup> TEST CURRENT			DC REVERSE LEAKAGE CURRENT		DYNAMIC RESISTANCE f = 1 kHz		ZENER CURRENT <sup>(2)</sup>	FORWARD VOLTAGE at 200 mA	
	V <sub>Z</sub> at I <sub>ZT1</sub>	I <sub>ZT1</sub>	I <sub>ZT2</sub>	l <sub>R</sub> a	t V <sub>R</sub>	Z <sub>Z</sub> at I <sub>ZT1</sub>	Z <sub>ZK</sub> at I <sub>ZT2</sub>	I <sub>ZM</sub>	V <sub>F</sub>
	V	m	A	μA V		Ω		mA <sub>pk</sub>	v
	NOM.			MAX.		MAX.	MAX.	MAX.	MAX.
	6.2	41	1	50	3	2	700	730	1.2
	6.8	37	1	10	4	3.5	700	660	1.2
	7.5	34	0.5	10	5	4	700	605	1.2
	8.2	31	0.5	10	6	4.5	700	550	1.2
	9.1	28	0.5	10	7	5	700	500	1.2
	10	25	0.25	10	7.6	7	700	454	1.2
	11	23	0.25	5	8.4	8	700	414	1.2

#### GLL4741 0.25 8.4 700 414 11 23 5 8 GLL4742 12 21 0.25 5 9.1 9 700 380 GLL4743 13 19 0.25 5 9.9 10 700 344 700 GLL4744 15 17 0.25 5 11.4 14 305 GLL4745 16 15.5 0.25 5 12.2 16 700 285 GLL4746 18 14 0.25 5 13.7 20 750 250 GLL4747 20 12.5 0.25 5 15.2 22 750 225 GLL4748 22 11.5 0.25 5 16.7 23 750 205 GLL4749 10.5 0.25 18.2 25 750 190 24 5 GLL4750 27 9.5 0.25 5 20.6 35 750 170 GLL4751 30 8.5 0.25 5 22.8 40 1000 150 33 0.25 5 45 1000 135 GLL4752 7.5 25.1 1000 GLL4753 36 7 0.25 5 27.4 50 125 GLL4754 39 6.5 0.25 5 29.7 60 1000 115 70 1500 GLL4755 43 6 0.25 5 32.7 110 47 0.25 5 80 1500 GLL4756 5.5 35.8 95 GLL4757 51 5 0.25 5 38.8 95 1500 90 GLL4758 56 4.5 0.25 5 42.6 110 2000 80 2000 GLL4759 62 4 0.25 47.1 125 70 5 GLL4760 68 3.7 0.25 5 51.7 150 2000 65 GLL4761 75 3.3 0.25 5 56 175 2000 60 GLL4762 82 3 0.25 5 62.2 200 3000 55 GLL4763 91 0.25 5 69.2 250 3000 50 2.8

#### Notes

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

<sup>(2)</sup> Surge current is a non-repetitive, 8.3 ms pulse width square wave or equivalent sine-wave superimposed on I<sub>ZT</sub> per JEDEC<sup>®</sup> method



ELECTRICAL

PART NUMBER

GLL4735 GLL4736 GLL4737 GLL4738 GLL4739 GLL4740



# GLL4735 to GLL4763A

# **Vishay Semiconductors**

## BASIC CHARACTERISTICS (T<sub>amb</sub> = 25 °C, unless otherwise specified)

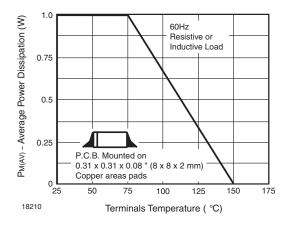


Fig. 1 - Maximum Continuous Power Dissipation

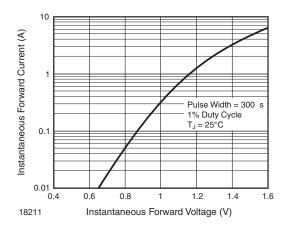


Fig. 2 - Typical Instantaneous Forward Characteristics for GLL4763

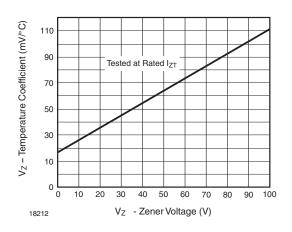


Fig. 3 - Typical Temperature Coefficients

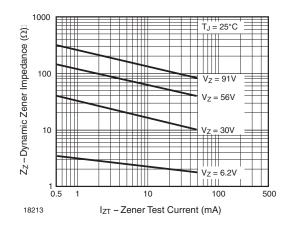


Fig. 4 - Typical Zener Impedance

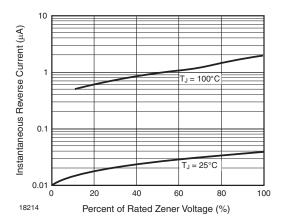


Fig. 5 - Typical Reverse Characteristics

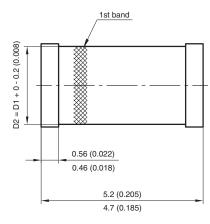
For technical questions within your region: DiodesAmericas@vishay.com, DiodesAsia@vishay.com, DiodesEurope@vishay.com THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE. THE PRODUCTS DESCRIBED HEREIN AND THIS DOCUMENT ARE SUBJECT TO SPECIFI Downloaded From Oneyac.com

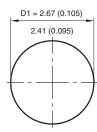




**Vishay Semiconductors** 

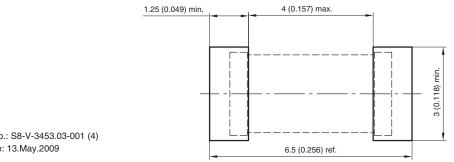
#### PACKAGE DIMENSIONS in millimeters (inches): MELF DO-213AB (plastic)





1st band denotes type and positive end (cathode)

Foot print recommendation:



Document-No.: S8-V-3453.03-001 (4) Created-Date: 13.May.2009 18268



Vishay

# Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Hyperlinks included in this datasheet may direct users to third-party websites. These links are provided as a convenience and for informational purposes only. Inclusion of these hyperlinks does not constitute an endorsement or an approval by Vishay of any of the products, services or opinions of the corporation, organization or individual associated with the third-party website. Vishay disclaims any and all liability and bears no responsibility for the accuracy, legality or content of the third-party website or for that of subsequent links.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.

单击下面可查看定价,库存,交付和生命周期等信息

>>Vishay(威世)