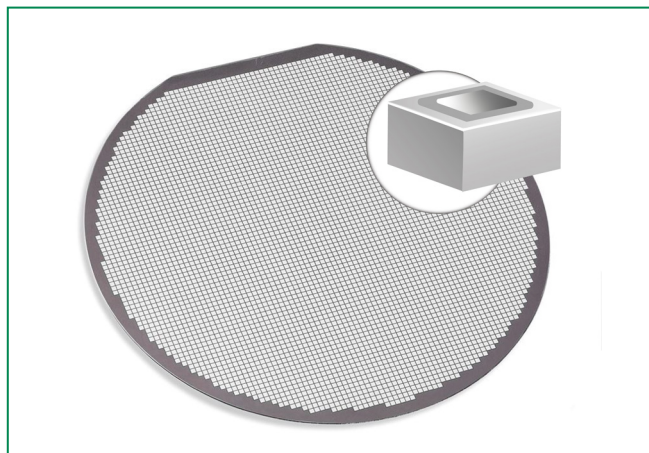


WB07B0606LG

Wire Bond Zener Diode Die, 7V Bi-directional for ESD Protection



Description

The new WB07B0606LG Wire Bond Zener Diode Die is for use in LED designs and sensitive elements that require bi-directional ESD protection. The WB07B0606LG meets IEC 61000-4-2, Contact 15 kV.

Features

- Zener with bi-directional structure
- Paralleled to the LED
- Unity pad metal (for single wire bonding only)
- Two way Zener diode protection
- ESD, ± 15 kV contact discharge per IEC 61000-4-2

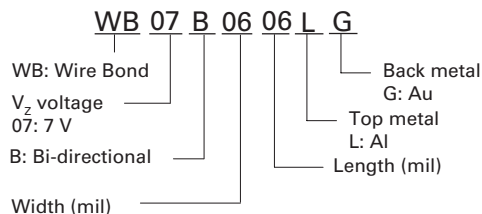
Applications

- Handset Flash LED ESD protection
- Auto LED headlight ESD
- Backlight LED in Display TV and Monitor
- Outdoor LED
- Ultraviolet UV light / Sterilamp
- Module embedded ESD die for I/Os

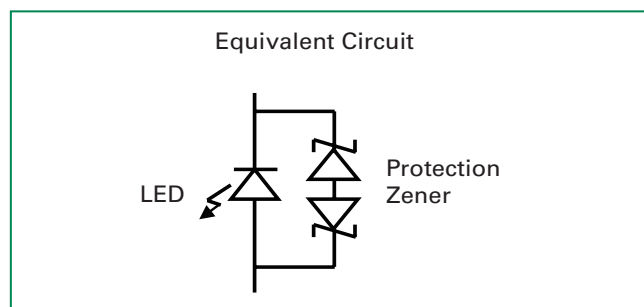
Absolute Maximum Ratings

Symbol	Parameter	Value	Units
T_J	Operating Temperature	150	$^{\circ}\text{C}$

Part Numbering



Functional Diagram



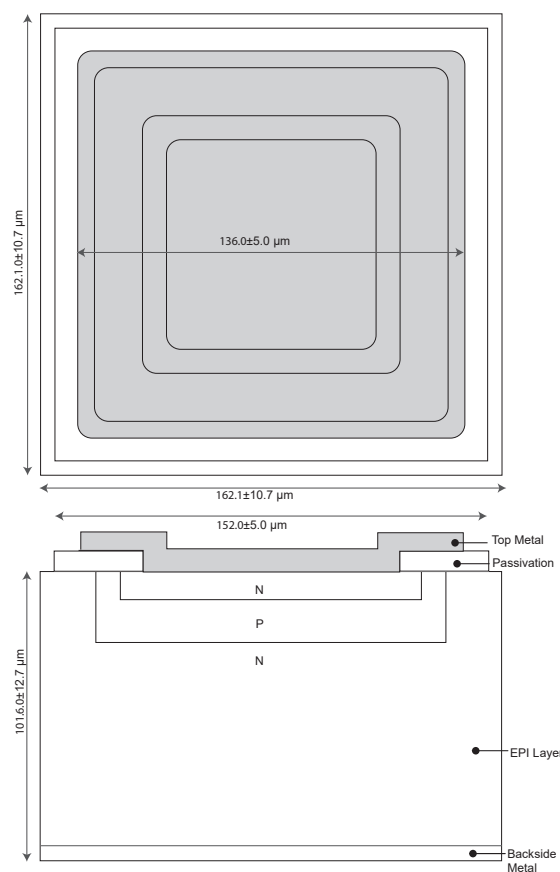
Electrical Characteristics ($T_{OP}=25^{\circ}\text{C}$)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Units
Zener Voltage	V_Z (Forward)	$I_{zf}= 5\text{ mA}$	5.5		7.0	V
	V_Z (Reverse)	$I_{zr}= 5\text{ mA}$	5.3		6.8	V
Leakage Current	I_{df}	$V= 4\text{ V}$			0.1 100	μA nA
	I_{dr}				0.1 100	μA nA

Note1: Parameter is guaranteed by package characterization

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Physical Dimensions

Item	Characteristics	
Die size	$162.1 \pm 10.7 \mu\text{m}$	$6.38 \pm 0.42 \text{ mil}$
Pad size	$136.0 \pm 5.0 \mu\text{m}$	$5.35 \pm 0.20 \text{ mil}$
Die thickness	$101.6 \pm 12.7 \mu\text{m}$	$4.00 \pm 0.50 \text{ mil}$
Passivation	$152.0 \pm 5 \mu\text{m}$	$5.98 \pm 0.20 \text{ mil}$
Top metalization	Al/Cu	
Back metallization	Ti /0.6 kÅ/, Au /4 kÅ/	

Note:

- For detail packing specification, please contact with Littelfuse
- $\text{\AA} = 10^{-10} \text{ m}$

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