



## Standard SMD LED PLCC-2



### DESCRIPTION

These devices have been designed to meet the increasing demand for surface mounting technology.

The package of the VLM.310. is the PLCC-2.

It consists of a lead frame which is embedded in a white thermoplast. The reflector inside this package is filled up with clear epoxy.

### PRODUCT GROUP AND PACKAGE DATA

- Product group: LED
- Package: SMD PLCC-2
- Product series: standard
- Angle of half intensity:  $\pm 60^\circ$

### FEATURES

- SMD LEDs with exceptional brightness
- Luminous intensity categorized
- Compatible with automatic placement equipment
- EIA and ICE standard package
- Compatible with infrared, vapor phase and wave solder processes according to CECC 00802 and J-STD-020
- Available in 8 mm tape
- Low profile package
- Non-diffused lens: excellent for coupling to light pipes and backlighting
- Low power consumption
- Luminous intensity ratio in one packaging unit  $I_{Vmax.}/I_{Vmin.} \leq 1.6$
- Preconditioning: acc. to JEDEC level 2a
- AEC-Q101 qualified
- Material categorization: For definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)



### APPLICATIONS

- Automotive: backlighting in dashboards, and switches
- Telecommunication: indicator and backlighting in telephone and fax
- Indicator and backlight for audio and video equipment
- Indicator and backlight in office equipment
- Flat backlight for LCDs, switches, and symbols
- General use

### PARTS TABLE

PART	COLOR	LUMINOUS INTENSITY (mcd)			at I <sub>F</sub> (mA)	WAVELENGTH (nm)			FORWARD VOLTAGE (V)			at I <sub>F</sub> (mA)	TECHNOLOGY
		MIN.	TYP.	MAX.		MIN.	TYP.	MAX.	MIN.	TYP.	MAX.		
VLMH3100-GS08	Amber	2.8	10	-	10	612	-	625	-	2	2.8	20	GaAsP on GaP
VLMH3100-GS18	Amber	2.8	10	-	10	612	-	625	-	2	2.8	20	GaAsP on GaP
VLMH3101-GS08	Amber	4.5	-	11.2	10	612	-	625	-	2	2.8	20	GaAsP on GaP
VLMH3101-GS18	Amber	4.5	-	11.2	10	612	-	625	-	2	2.8	20	GaAsP on GaP
VLMH3102-GS08	Amber	7.1	-	18	10	612	-	625	-	2	2.8	20	GaAsP on GaP
VLMH3102-GS18	Amber	7.1	-	18	10	612	-	625	-	2	2.8	20	GaAsP on GaP
VLMO3100-GS08	Soft orange	2.8	8	-	10	598	-	611	-	2	2.8	20	GaAsP on GaP
VLMO3100-GS18	Soft orange	2.8	8	-	10	598	-	611	-	2	2.8	20	GaAsP on GaP
VLMO3101-GS08	Soft orange	4.5	-	11.2	10	598	-	611	-	2	2.8	20	GaAsP on GaP
VLMO3101-GS18	Soft orange	4.5	-	11.2	10	598	-	611	-	2	2.8	20	GaAsP on GaP
VLMY3100-GS08	Yellow	2.8	10		10	581	-	594	-	2.1	2.8	20	GaAsP on GaP
VLMY3100-GS18	Yellow	2.8	10		10	581	-	594	-	2.1	2.8	20	GaAsP on GaP
VLMY3101-GS08	Yellow	4.5	-	11.2	10	581	-	594	-	2.1	2.8	20	GaAsP on GaP
VLMY3101-GS18	Yellow	4.5	-	11.2	10	581	-	594	-	2.1	2.8	20	GaAsP on GaP



PARTS TABLE													
PART	COLOR	LUMINOUS INTENSITY (mcd)			at I <sub>F</sub> (mA)	WAVELENGTH (nm)			FORWARD VOLTAGE (V)			at I <sub>F</sub> (mA)	TECHNOLOGY
		MIN.	TYP.	MAX.		MIN.	TYP.	MAX.	MIN.	TYP.	MAX.		
VLMY3102-GS08	Yellow	7.1	-	18	10	581	-	594	-	2.1	2.8	20	GaAsP on GaP
VLMY3102-GS18	Yellow	7.1	-	18	10	581	-	594	-	2.1	2.8	20	GaAsP on GaP
VLMG3100-GS08	Green	4.5	16	-	10	562	-	575	-	2.2	2.8	20	GaP on GaP
VLMG3100-GS18	Green	4.5	16	-	10	562	-	575	-	2.2	2.8	20	GaP on GaP
VLMG3102-GS08	Green	11.2	-	18	10	562	-	575	-	2.2	2.8	20	GaP on GaP
VLMG3102-GS18	Green	11.2	-	18	10	562	-	575	-	2.2	2.8	20	GaP on GaP
VLMG3105-GS08	Green	7.1	-	18	10	562	-	575	-	2.2	2.8	20	GaP on GaP
VLMG3105-GS18	Green	7.1	-	18	10	562	-	575	-	2.2	2.8	20	GaP on GaP
VLMP3100-GS08	Pure green	1.12	4	-	10	555	-	565	-	2.1	2.8	20	GaP on GaP
VLMP3100-GS18	Pure green	1.12	4	-	10	555	-	565	-	2.1	2.8	20	GaP on GaP
VLMP3101-GS08	Pure green	1.8	-	4.5	10	555	-	565	-	2.1	2.8	20	GaP on GaP
VLMP3101-GS18	Pure green	1.8	-	4.5	10	555	-	565	-	2.1	2.8	20	GaP on GaP
VLMP3107-GS08	Pure green	2.8	-	7.1	10	555	-	565	-	2.1	2.8	20	GaP on GaP
VLMP3107-GS18	Pure green	2.8	-	7.1	10	555	-	565	-	2.1	2.8	20	GaP on GaP
VLMP3102-GS08	Pure green	2.8	-	5.6	10	555	-	565	-	2.1	2.8	20	GaP on GaP
VLMP3102-GS18	Pure green	2.8	-	5.6	10	555	-	565	-	2.1	2.8	20	GaP on GaP

ABSOLUTE MAXIMUM RATINGS (T <sub>amb</sub> = 25 °C, unless otherwise specified) VLMG310., VLMH310., VLMO310., VLMP310., VLMY310.				
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT
Reverse voltage		V <sub>R</sub>	6	V
DC forward current	T <sub>amb</sub> ≤ 60 °C	I <sub>F</sub>	30	mA
Surge forward current	t <sub>p</sub> ≤ 10 ∞s	I <sub>FSM</sub>	0.5	A
Power dissipation	T <sub>amb</sub> ≤ 60 °C	P <sub>V</sub>	100	mW
Junction temperature		T <sub>J</sub>	100	°C
Operating temperature range		T <sub>amb</sub>	- 40 to + 100	°C
Storage temperature range		T <sub>stg</sub>	- 40 to + 100	°C
Soldering temperature	t ≤ 5 s	T <sub>sd</sub>	260	°C
Thermal resistance junction/ambient	Mounted on PC board (pad size > 16 mm <sup>2</sup> )	R <sub>thJA</sub>	400	K/W

OPTICAL AND ELECTRICAL CHARACTERISTICS (T <sub>amb</sub> = 25 °C, unless otherwise specified) VLMH310., AMBER							
PARAMETER	TEST CONDITION	PART	SYMBOL	MIN.	TYP.	MAX.	UNIT
Luminous intensity <sup>(1)</sup>	I <sub>F</sub> = 10 mA	VLMH3100	I <sub>V</sub>	2.8	10	-	mcd
		VLMH3101	I <sub>V</sub>	4.5	-	11.2	mcd
		VLMH3102	I <sub>V</sub>	7.1	-	18	mcd
Dominant wavelength	I <sub>F</sub> = 10 mA		λ <sub>d</sub>	612	-	625	nm
Peak wavelength	I <sub>F</sub> = 10 mA		λ <sub>p</sub>	-	635	-	nm
Angle of half intensity	I <sub>F</sub> = 10 mA		φ	-	± 60	-	deg
Forward voltage	I <sub>F</sub> = 20 mA		V <sub>F</sub>	-	2	2.8	V
Reverse voltage	I <sub>R</sub> = 10 μA		V <sub>R</sub>	6	15	-	V
Junction capacitance	V <sub>R</sub> = 0 V, f = 1 MHz		C <sub>j</sub>	-	15	-	pF

**Note**

<sup>(1)</sup> In one packing unit I<sub>Vmax</sub>/I<sub>Vmin</sub> ≤ 1.6



**OPTICAL AND ELECTRICAL CHARACTERISTICS** ( $T_{amb} = 25\text{ }^{\circ}\text{C}$ , unless otherwise specified)  
**VLMO310., SOFT ORANGE**

PARAMETER	TEST CONDITION	PART	SYMBOL	MIN.	TYP.	MAX.	UNIT
Luminous intensity <sup>(1)</sup>	$I_F = 10\text{ mA}$	VLMO3100	$I_V$	2.8	8	-	mcd
		VLMO3101	$I_V$	4.5	-	11.2	mcd
Dominant wavelength	$I_F = 10\text{ mA}$		$\lambda_d$	598	-	611	nm
Peak wavelength	$I_F = 10\text{ mA}$		$\lambda_p$	-	605	-	nm
Angle of half intensity	$I_F = 10\text{ mA}$		$\phi$	-	$\pm 60$	-	deg
Forward voltage	$I_F = 20\text{ mA}$		$V_F$	-	2	2.8	V
Reverse voltage	$I_R = 10\text{ }\mu\text{A}$		$V_R$	6	15	-	V
Junction capacitance	$V_R = 0\text{ V}$ , $f = 1\text{ MHz}$		$C_j$	-	15	-	pF

**Note**

<sup>(1)</sup> In one packing unit  $I_{Vmax}/I_{Vmin} \leq 1.6$

**OPTICAL AND ELECTRICAL CHARACTERISTICS** ( $T_{amb} = 25\text{ }^{\circ}\text{C}$ , unless otherwise specified)  
**VLMY310., YELLOW**

PARAMETER	TEST CONDITION	PART	SYMBOL	MIN.	TYP.	MAX.	UNIT
Luminous intensity <sup>(1)</sup>	$I_F = 10\text{ mA}$	VLMY3100	$I_V$	2.8	10	-	mcd
		VLMY3101	$I_V$	4.5	-	11.2	mcd
		VLMY3102	$I_V$	7.1	-	18	mcd
Dominant wavelength	$I_F = 10\text{ mA}$		$\lambda_d$	581	-	594	nm
Peak wavelength	$I_F = 10\text{ mA}$		$\lambda_p$	-	585	-	nm
Angle of half intensity	$I_F = 10\text{ mA}$		$\phi$	-	$\pm 60$	-	deg
Forward voltage	$I_F = 20\text{ mA}$		$V_F$	-	2.1	2.8	V
Reverse voltage	$I_R = 10\text{ }\mu\text{A}$		$V_R$	6	15	-	V
Junction capacitance	$V_R = 0\text{ V}$ , $f = 1\text{ MHz}$		$C_j$	-	15	-	pF

**Note**

<sup>(1)</sup> In one packing unit  $I_{Vmax}/I_{Vmin} \leq 1.6$

**OPTICAL AND ELECTRICAL CHARACTERISTICS** ( $T_{amb} = 25\text{ }^{\circ}\text{C}$ , unless otherwise specified)  
**VLMG310., GREEN**

PARAMETER	TEST CONDITION	PART	SYMBOL	MIN.	TYP.	MAX.	UNIT
Luminous intensity <sup>(1)</sup>	$I_F = 10\text{ mA}$	VLMG3100	$I_V$	4.5	16	-	mcd
		VLMG3102	$I_V$	11.2	-	18	mcd
		VLMG3105	$I_V$	7.1	-	18	mcd
Dominant wavelength	$I_F = 10\text{ mA}$		$\lambda_d$	562	-	575	nm
Peak wavelength	$I_F = 10\text{ mA}$		$\lambda_p$	-	565	-	nm
Angle of half intensity	$I_F = 10\text{ mA}$		$\phi$	-	$\pm 60$	-	deg
Forward voltage	$I_F = 20\text{ mA}$		$V_F$	-	2.2	2.8	V
Reverse voltage	$I_R = 10\text{ }\mu\text{A}$		$V_R$	6	15	-	V
Junction capacitance	$V_R = 0\text{ V}$ , $f = 1\text{ MHz}$		-	-	15	-	pF

**Note**

<sup>(1)</sup> In one packing unit  $I_{Vmax}/I_{Vmin} \leq 1.6$



**OPTICAL AND ELECTRICAL CHARACTERISTICS** ( $T_{amb} = 25\text{ }^{\circ}\text{C}$ , unless otherwise specified)  
**VLMP310., PURE GREEN**

PARAMETER	TEST CONDITION	PART	SYMBOL	MIN.	TYP.	MAX.	UNIT
Luminous intensity <sup>(1)</sup>	$I_F = 10\text{ mA}$	VLMP3100	$I_V$	1.12	4	-	mcd
		VLMP3101	$I_V$	1.8	-	4.5	mcd
		VLMP3102	$I_V$	2.8	-	7.1	mcd
		VLMP3107	$I_V$	2.8	-	5.6	mcd
Dominant wavelength	$I_F = 10\text{ mA}$		$\lambda_d$	555	-	565	nm
Peak wavelength	$I_F = 10\text{ mA}$		$\lambda_p$	-	555	-	nm
Angle of half intensity	$I_F = 10\text{ mA}$		$\phi$	-	$\pm 60$	-	deg
Forward voltage	$I_F = 20\text{ mA}$		$V_F$	-	2.1	2.8	V
Reverse voltage	$I_R = 10\text{ }\mu\text{A}$		$V_R$	6	15	-	V
Junction capacitance	$V_R = 0\text{ V}$ , $f = 1\text{ MHz}$		$C_j$	-	15	-	pF

**Note**

<sup>(1)</sup> In one packing unit  $I_{Vmax}/I_{Vmin} \leq 1.6$

**COLOR CALSSIFICATION**

GROUP	YELLOW		GREEN		SOFT ORANGE		PURE GREEN	
	DOM. WAVELENGTH (nm)				DOM. WAVELENGTH (nm)			
	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
0							555	559
1	581	584			598	601	558	561
2	583	586			600	603	560	563
3	585	588			602	605	562	565
4	587	590	564	567	604	607		
5	589	592	566	569	606	609		
6	591	594	568	571	608	611		
7			570	573				
8			572	575				

**Note**

- Wavelengths are tested at a current pulse duration of 25 ms.

**LUMINOUS INTENSITY CLASSIFICATION**

GROUP	LIGHT INTENSITY (mcd)		
	STANDARD	OPTIONAL	MIN. / MAX.
F	-	-	-
	2	1.40	1.80
G	1	1.80	2.24
	2	2.24	2.80
H	1	2.80	3.55
	2	3.55	4.50
J	1	4.50	5.60
	2	5.60	7.10
K	1	7.10	9.00
	2	9.00	11.20
L	1	11.20	14.00
	2	14.00	18.00
M	1	18.00	22.40
	2	22.40	28.00

**Note**

- Luminous intensity is tested at a current pulse duration of 25 ms and an accuracy of  $\pm 11\%$ .  
 The above type numbers represent the order groups which include only a few brightness groups. Only one group will be shipped on each reel (there will be no mixing of two groups on each reel).  
 In order to ensure availability, single brightness groups will not be orderable.  
 In a similar manner for colors where wavelength groups are measured and binned, single wavelength groups will be shipped on any one reel.  
 In order to ensure availability, single wavelength groups will not be orderable.

CROSSING TABLE		
VISHAY	OSRAM	STANLEY
VLMH3100	-	-
VLMH3101	-	-
VLMH3102	-	-
VLMO3100	LOT670J1L2	-
VLMO3101	LOT670J1K2	-
VLMY3100	LYT670J1L2	-
VLMY3101	LYT670J1K2	-
VLMY3102	LYT670K1L2	-
VLMG3100	LGT670K1M2	VYBG1104B
VLMG3102	LGT670L1L2	-
VLMG3105	LGT671K1L2	-
VLMP3100	LPT670F2J2	-
VLMP3101	LPT670G1H2	VYBG1101W
VLMP3102	LPT670H1J2	-
VLMP3107	LPT670H1J1	-

## TYPICAL CHARACTERISTICS ( $T_{amb} = 25\text{ }^{\circ}\text{C}$ , unless otherwise specified)



Fig. 1 - Maximum Permissible Forward Current vs. Ambient Temperature



Fig. 3 - Relative Luminous Intensity vs. Angular Displacement

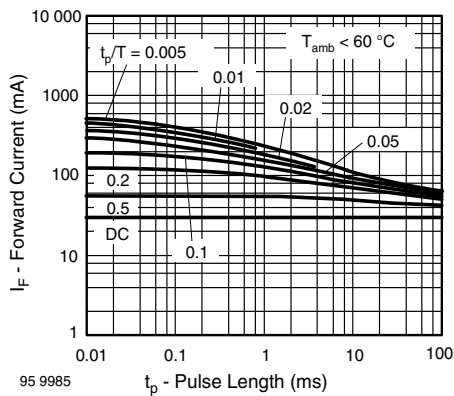


Fig. 2 - Permissible Pulse Forward Current vs. Pulse Duration

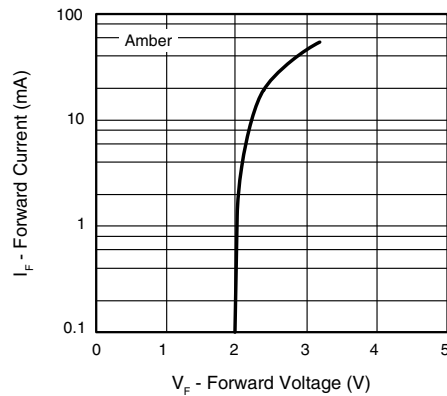


Fig. 4 - Forward Current vs. Forward Voltage



Fig. 5 - Relative Luminous Intensity vs. Ambient Temperature



Fig. 8 - Relative Intensity vs. Wavelength



Fig. 6 - Specific Luminous Intensity vs. Forward Current/Duty Cycle



Fig. 9 - Forward Current vs. Forward Voltage



Fig. 7 - Relative Luminous Intensity vs. Forward Current

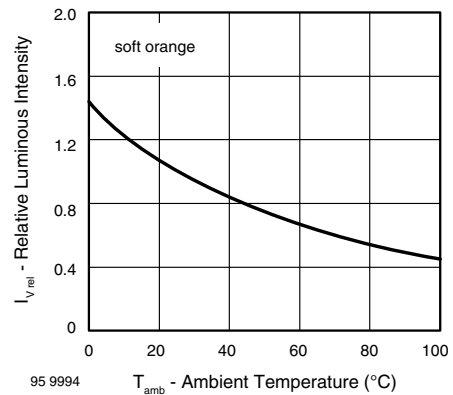


Fig. 10 - Relative Luminous Intensity vs. Ambient Temperature



Fig. 11 - Specific Luminous Intensity vs. Forward Current/Duty Cycle



Fig. 14 - Forward Current vs. Forward Voltage



Fig. 12 - Relative Luminous Intensity vs. Forward Current

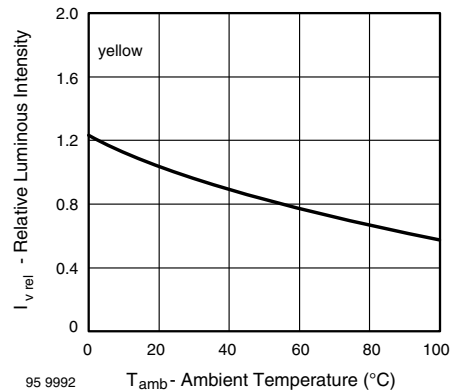


Fig. 15 - Relative Luminous Intensity vs. Ambient Temperature

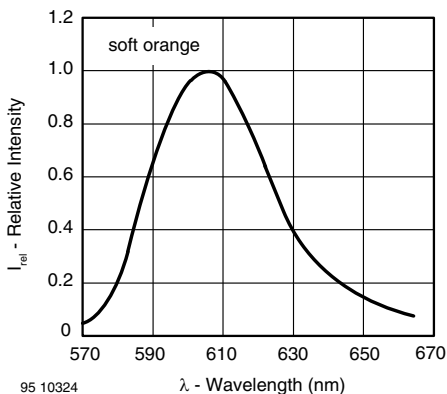


Fig. 13 - Relative Intensity vs. Wavelength

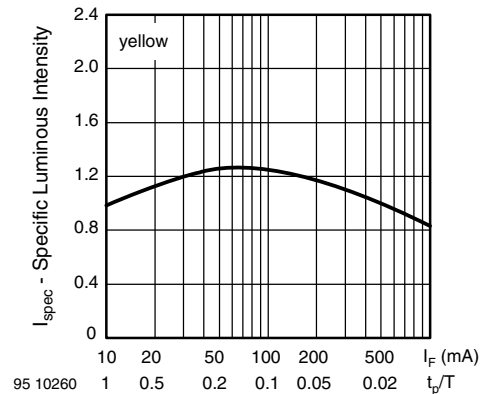


Fig. 16 - Specific Luminous Intensity vs. Forward Current/Duty Cycle



Fig. 17 - Relative Luminous Intensity vs. Forward Current



Fig. 20 - Relative Luminous Intensity vs. Ambient Temperature



Fig. 18 - Relative Intensity vs. Wavelength



Fig. 21 - Specific Luminous Intensity vs. Forward Current



Fig. 19 - Forward Current vs. Forward Voltage



Fig. 22 - Relative Luminous Intensity vs. Forward Current





Fig. 23 - Relative Intensity vs. Wavelength



Fig. 26 - Specific Luminous Intensity vs. Forward Current



Fig. 24 - Forward Current vs. Forward Voltage



Fig. 27 - Relative Luminous Intensity vs. Forward Current



Fig. 25 - Relative Luminous Intensity vs. Ambient Temperature



Fig. 28 - Relative Intensity vs. Wavelength



**PACKAGE DIMENSIONS** in millimeters



technical drawings according to DIN specifications



**Mounting Pad Layout**



Drawing-No.: 6.541-5067.01-4  
Issue: 5; 04.11.08  
20541

**METHOD OF TAPING/POLARITY AND TAPE AND REEL**

**SMD LED (VLM3-SERIES)**

Vishay's LEDs in SMD packages are available in an antistatic 8 mm blister tape (in accordance with DIN IEC 40 (CO) 564) for automatic component insertion. The blister tape is a plastic strip with impressed component cavities, covered by a top tape.



**TAPING OF VLM.3..**

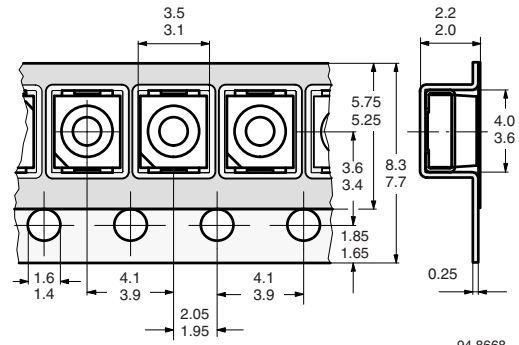


Fig. 29 - Tape Dimensions in mm for PLCC-2



**REEL PACKAGE DIMENSION IN MILLIMETERS  
FOR SMD LEDS, TAPE OPTION GS08  
(= 1500 PCS.)**



Fig. 30 - Reel Dimensions - GS08

**SOLDERING PROFILE**



Fig. 32 - Vishay Lead (Pb)-free Reflow Soldering Profile (acc. to J-STD-020)

**REEL PACKAGE DIMENSION IN MILLIMETERS  
FOR SMD LEDS, TAPE OPTION GS18  
(= 8000 PCS.) PREFERRED**

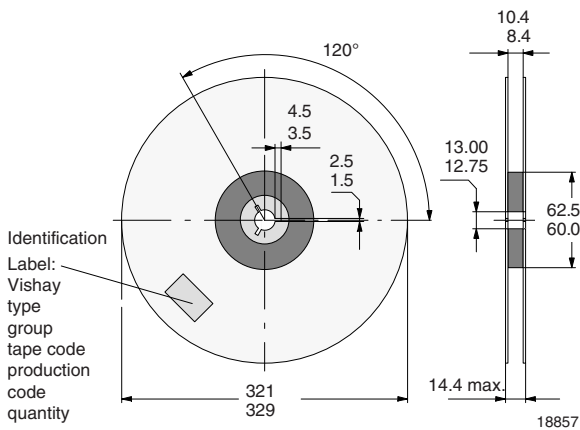


Fig. 31 - Reel Dimensions - GS18



Fig. 33 - Double Wave Soldering of Opto Devices (all Packages)



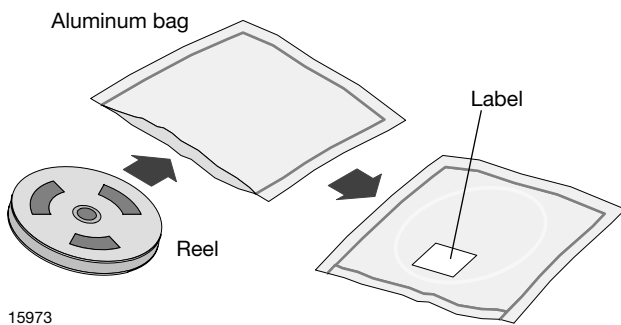
## BAR CODE PRODUCT LABEL (example)



- A) Type of component
- B) Manufacturing plant
- C) SEL - selection code (bin):  
e.g.: K1= code for luminous intensity group  
4= code for color group
- D) Date code year/week
- E) Day code (e.g. 2: Tuesday)
- F) Batch no.
- G) Total quantity
- H) Company code

## DRY PACKING

The reel is packed in an anti-humidity bag to protect the devices from absorbing moisture during transportation and storage.



## FINAL PACKING

The sealed reel is packed into a cardboard box. A secondary cardboard box is used for shipping purposes.

## RECOMMENDED METHOD OF STORAGE

Dry box storage is recommended as soon as the aluminum bag has been opened to prevent moisture absorption. The following conditions should be observed, if dry boxes are not available:

- Storage temperature 10 °C to 30 °C
- Storage humidity ≤ 60 % RH max.

After more than 672 h under these conditions moisture content will be too high for reflow soldering.

In case of moisture absorption, the devices will recover to the former condition by drying under the following condition:

- 192 h at 40 °C + 5 °C/- 0 °C and < 5 % RH (dry air/nitrogen) or
- 96 h at 60 °C + 5 °C and < 5 % RH for all device containers or
- 24 h at 100 °C + 5 °C not suitable for reel or tubes.

An EIA JEDEC standard JESD22-A112 level 2a label is included on all dry bags.



Example of JESD22-A112 level 2a label

## ESD PRECAUTION

Proper storage and handling procedures should be followed to prevent ESD damage to the devices especially when they are removed from the antistatic shielding bag. Electro-static sensitive devices warning labels are on the packaging.

## VISHAY SEMICONDUCTORS STANDARD BAR CODE LABELS

The Vishay Semiconductors standard bar code labels are printed at final packing areas. The labels are on each packing unit and contain Vishay Semiconductors specific data.



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## Material Category Policy

**Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as RoHS-Compliant fulfill the definitions and restrictions defined under Directive 2011/65/EU of The European Parliament and of the Council of June 8, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (EEE) - recast, unless otherwise specified as non-compliant.**

**Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.**



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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