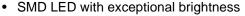
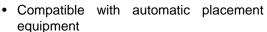


Low Current SMD LED











· EIA and ICE standard package

 Compatible with IR reflow, 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
- · Very low power consumption
- Luminous intensity ratio in one packaging unit $I_{Vmax}/I_{Vmin.} \le 1.6$
- ESD withstand voltage: up to 2 kV according to JESD22-A114-B
- · Preconditioning: according to JEDEC level 2a
- AEC-Q101 qualified
- Compliant to RoHS directive 2002/95/EC and in accordance to WEEE 2002/96/EC

DESCRIPTION

These new devices have been designed to meet the increasing demand for AllnGaP based low current SMD LEDs.

The package of the VLM.30.. is the PLCC-2 package. 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: low current
Angle of half intensity: ± 60°

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 for battery driven equipment
- · Indicator and backlight in office equipment
- Flat backlight for LCDs, switches and symbols
- · General use

PARTS TABLE				
PART	COLOR, LUMINOUS INTENSITY	TECHNOLOGY		
VLMS3000-GS08	Super red, $I_V > 2.8 \text{ mcd}$	AllnGaP		
VLMS3000-GS18	Super red, I _V > 2.8 mcd	AllnGaP		
VLMS30J1K2-GS08	Super red, $I_V = (4.5 \text{ to } 11.2) \text{ mcd}$	AllnGaP		
VLMS30J1K2-GS18	Super red, $I_V = (4.5 \text{ to } 11.2) \text{ mcd}$	AllnGaP		
VLMS30K1L2-GS08	Super red, $I_V = (7.1 \text{ to } 18) \text{ mcd}$	AllnGaP		
VLMS30K1L2-GS18	Super red, $I_V = (7.1 \text{ to } 18) \text{ mcd}$	AllnGaP		

VLMO30.., VLMS30.., VLMY30..

Vishay Semiconductors



VLMS30J1L2-GS08	PARTS TABLE		
VLMS30J1L2-GS18 Super red, I _V = (4.5 to 18) mcd AlinGaP VLMS30J2K2-GS08 Super red, I _V = (5.6 to 11.2) mcd AlinGaP VLMS30J2K2-GS18 Super red, I _V = (5.6 to 11.2) mcd AlinGaP VLMS30J2K2-GS08 Super red, I _V = (9 to 18) mcd AlinGaP VLMO3000-GS08 Orange, I _V > 5.6 mcd AlinGaP VLMO3000-GS18 Orange, I _V > 5.6 mcd AlinGaP VLMO300K1L2-GS08 Orange, I _V = (7.1 to 18) mcd AlinGaP VLMO30K1L2-GS18 Orange, I _V = (7.1 to 18) mcd AlinGaP VLMO30L1M2-GS08 Orange, I _V = (11.2 to 28) mcd AlinGaP VLMO30L1M2-GS18 Orange, I _V = (11.2 to 28) mcd AlinGaP VLMO30K1M2-GS08 Orange, I _V = (7.1 to 28) mcd AlinGaP VLMO30K1M2-GS08 Orange, I _V = (7.1 to 28) mcd AlinGaP VLMO300K1M2-GS18 Orange, I _V = (7.1 to 18) mcd AlinGaP VLMY3000-GS08 Yellow, I _V > 4.5 mcd AlinGaP VLMY3001-GS08 Yellow, I _V = (7.1 to 18) mcd AlinGaP VLMY3001-GS18 Yellow, I _V = (7.1 to 18) mcd AlinGaP VLMY30UZL1-GS08 Yello	PART	COLOR, LUMINOUS INTENSITY	TECHNOLOGY
VLMS30JZK2-GS08 Super red, I _V = (5.6 to 11.2) mcd AlinGaP VLMS30JZK2-GS18 Super red, I _V = (5.6 to 11.2) mcd AlinGaP VLMS30JZK2-GS08 Super red, I _V = (9 to 18) mcd AlinGaP VLMO3000-GS08 Orange, I _V > 5.6 mcd AlinGaP VLMO3000-GS18 Orange, I _V > 5.6 mcd AlinGaP VLMO30K1L2-GS08 Orange, I _V = (7.1 to 18) mcd AlinGaP VLMO30K1L2-GS18 Orange, I _V = (7.1 to 18) mcd AlinGaP VLMO30L1M2-GS08 Orange, I _V = (11.2 to 28) mcd AlinGaP VLMO30L1M2-GS08 Orange, I _V = (11.2 to 28) mcd AlinGaP VLMO30K1M2-GS18 Orange, I _V = (7.1 to 28) mcd AlinGaP VLMO30K1M2-GS18 Orange, I _V = (7.1 to 28) mcd AlinGaP VLMO300K1M2-GS18 Orange, I _V = (7.1 to 28) mcd AlinGaP VLMY3000-GS08 Yellow, I _V > 4.5 mcd AlinGaP VLMY3001-GS18 Yellow, I _V = (7.1 to 18) mcd AlinGaP VLMY3001-GS18 Yellow, I _V = (5.6 to 14) mcd AlinGaP VLMY30JZL1-GS08 Yellow, I _V = (5.6 to 14) mcd AlinGaP VLMY30JZM1-GS18 Yellow, I	VLMS30J1L2-GS08	Super red, I _V = (4.5 to 18) mcd	AllnGaP
VLMS30J2K2-GS18 Super red, I _V = (5.6 to 11.2) mcd AlinGaP VLMS30K2L2-GS08 Super red, I _V = (9 to 18) mcd AlinGaP VLMO3000-GS08 Orange, I _V > 5.6 mcd AlinGaP VLMO3000-GS18 Orange, I _V > 5.6 mcd AlinGaP VLMO300K1L2-GS08 Orange, I _V = (7.1 to 18) mcd AlinGaP VLMO30K1L2-GS18 Orange, I _V = (7.1 to 18) mcd AlinGaP VLMO30L1M2-GS08 Orange, I _V = (11.2 to 28) mcd AlinGaP VLMO30L1M2-GS18 Orange, I _V = (7.1 to 28) mcd AlinGaP VLMO30K1M2-GS08 Orange, I _V = (7.1 to 28) mcd AlinGaP VLMO30K1M2-GS08 Orange, I _V = (7.1 to 28) mcd AlinGaP VLMO300K1M2-GS18 Orange, I _V = (7.1 to 28) mcd AlinGaP VLMY3000-GS08 Yellow, I _V > 4.5 mcd AlinGaP VLMY3000-GS08 Yellow, I _V = (7.1 to 18) mcd AlinGaP VLMY3001-GS18 Yellow, I _V = (7.1 to 18) mcd AlinGaP VLMY3001-GS18 Yellow, I _V = (5.6 to 14) mcd AlinGaP VLMY30J2L1-GS08 Yellow, I _V = (5.6 to 14) mcd AlinGaP VLMY30J2M1-GS08 Yellow, I _V = (9	VLMS30J1L2-GS18	Super red, I _V = (4.5 to 18) mcd	AllnGaP
	VLMS30J2K2-GS08	Super red, I _V = (5.6 to 11.2) mcd	AllnGaP
VLMO3000-GS08 Orange, I _V > 5.6 mcd AlinGaP VLMO3000-GS18 Orange, I _V > 5.6 mcd AlinGaP VLMO300K1L2-GS08 Orange, I _V = (7.1 to 18) mcd AlinGaP VLMO30K1L2-GS18 Orange, I _V = (7.1 to 18) mcd AlinGaP VLMO30L1M2-GS08 Orange, I _V = (11.2 to 28) mcd AlinGaP VLMO30L1M2-GS18 Orange, I _V = (7.1 to 28) mcd AlinGaP VLMO30K1M2-GS08 Orange, I _V = (7.1 to 28) mcd AlinGaP VLMO30K1M2-GS18 Orange, I _V = (7.1 to 28) mcd AlinGaP VLMY3000-GS08 Yellow, I _V > 4.5 mcd AlinGaP VLMY3001-GS08 Yellow, I _V > 4.5 mcd AlinGaP VLMY3001-GS18 Yellow, I _V = (7.1 to 18) mcd AlinGaP VLMY3001-GS18 Yellow, I _V = (7.1 to 18) mcd AlinGaP VLMY30J2L1-GS08 Yellow, I _V = (5.6 to 14) mcd AlinGaP VLMY30J2L1-GS08 Yellow, I _V = (5.6 to 14) mcd AlinGaP VLMY30J2M1-GS08 Yellow, I _V = (9 to 22.4) mcd AlinGaP VLMY30J2M1-GS08 Yellow, I _V = (9 to 22.4) mcd AlinGaP VLMY30J2M1-GS08 Yellow, I _V = (9 to 22.4) mcd </td <td>VLMS30J2K2-GS18</td> <td>Super red, I_V = (5.6 to 11.2) mcd</td> <td>AllnGaP</td>	VLMS30J2K2-GS18	Super red, I _V = (5.6 to 11.2) mcd	AllnGaP
VLMO3000-GS18 Orange, I _V > 5.6 mcd AllnGaP VLMO30K1L2-GS08 Orange, I _V = (7.1 to 18) mcd AllnGaP VLMO30K1L2-GS18 Orange, I _V = (7.1 to 18) mcd AllnGaP VLMO30L1M2-GS08 Orange, I _V = (11.2 to 28) mcd AllnGaP VLMO30L1M2-GS18 Orange, I _V = (11.2 to 28) mcd AllnGaP VLMO30K1M2-GS08 Orange, I _V = (7.1 to 28) mcd AllnGaP VLMO30K1M2-GS18 Orange, I _V = (7.1 to 28) mcd AllnGaP VLMY3000-GS08 Yellow, I _V > 4.5 mcd AllnGaP VLMY3001-GS18 Yellow, I _V = (7.1 to 18) mcd AllnGaP VLMY3001-GS18 Yellow, I _V = (7.1 to 18) mcd AllnGaP VLMY30J2L1-GS08 Yellow, I _V = (5.6 to 14) mcd AllnGaP VLMY30J2L1-GS18 Yellow, I _V = (5.6 to 14) mcd AllnGaP VLMY30K2M1-GS08 Yellow, I _V = (9 to 22.4) mcd AllnGaP VLMY30J2M1-GS08 Yellow, I _V = (9 to 22.4) mcd AllnGaP VLMY30J2M1-GS08 Yellow, I _V = (9 to 22.4) mcd AllnGaP VLMY30J2M1-GS08 Yellow, I _V = (5.6 to 22.4) mcd AllnGaP	VLMS30K2L2-GS08	Super red, I _V = (9 to 18) mcd	AllnGaP
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	VLMO3000-GS08	Orange, I _V > 5.6 mcd	AllnGaP
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	VLMO3000-GS18	Orange, I _V > 5.6 mcd	AllnGaP
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	VLMO30K1L2-GS08	Orange, I _V = (7.1 to 18) mcd	AllnGaP
VLMO30L1M2-GS18 Orange, $I_V = (11.2 \text{ to } 28) \text{ mcd}$ AllnGaP VLMO30K1M2-GS08 Orange, $I_V = (7.1 \text{ to } 28) \text{ mcd}$ AllnGaP VLMO30K1M2-GS18 Orange, $I_V = (7.1 \text{ to } 28) \text{ mcd}$ AllnGaP VLMY3000-GS08 Yellow, $I_V > 4.5 \text{ mcd}$ AllnGaP VLMY3000-GS18 Yellow, $I_V = (7.1 \text{ to } 18) \text{ mcd}$ AllnGaP VLMY3001GS08 Yellow, $I_V = (7.1 \text{ to } 18) \text{ mcd}$ AllnGaP VLMY3001-GS18 Yellow, $I_V = (7.1 \text{ to } 18) \text{ mcd}$ AllnGaP VLMY30J2L1-GS08 Yellow, $I_V = (5.6 \text{ to } 14) \text{ mcd}$ AllnGaP VLMY30J2L1-GS18 Yellow, $I_V = (9 \text{ to } 22.4) \text{ mcd}$ AllnGaP VLMY30K2M1-GS08 Yellow, $I_V = (9 \text{ to } 22.4) \text{ mcd}$ AllnGaP VLMY30J2M1-GS08 Yellow, $I_V = (9 \text{ to } 22.4) \text{ mcd}$ AllnGaP VLMY30J2M1-GS08 Yellow, $I_V = (9 \text{ to } 22.4) \text{ mcd}$ AllnGaP VLMY30J2M1-GS08 Yellow, $I_V = (5.6 \text{ to } 22.4) \text{ mcd}$ AllnGaP	VLMO30K1L2-GS18	Orange, I _V = (7.1 to 18) mcd	AllnGaP
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	VLMO30L1M2-GS08	Orange, I _V = (11.2 to 28) mcd	AllnGaP
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	VLMO30L1M2-GS18	Orange, I _V = (11.2 to 28) mcd	AllnGaP
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	VLMO30K1M2-GS08	Orange, I _V = (7.1 to 28) mcd	AllnGaP
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	VLMO30K1M2-GS18	Orange, I _V = (7.1 to 28) mcd	AllnGaP
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	VLMY3000-GS08	Yellow, I _V > 4.5 mcd	AllnGaP
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	VLMY3000-GS18	Yellow, I _V > 4.5 mcd	AllnGaP
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	VLMY3001GS08	Yellow, I _V = (7.1 to 18) mcd	AllnGaP
$\begin{tabular}{lll} VLMY30J2L1-GS18 & Yellow, I_V = (5.6 to 14) mcd & AlInGaP \\ VLMY30K2M1-GS08 & Yellow, I_V = (9 to 22.4) mcd & AlInGaP \\ VLMY30K2M1-GS18 & Yellow, I_V = (9 to 22.4) mcd & AlInGaP \\ VLMY30J2M1-GS08 & Yellow, I_V = (5.6 to 22.4) mcd & AlInGaP \\ \hline \end{tabular}$	VLMY3001-GS18	Yellow, I _V = (7.1 to 18) mcd	AllnGaP
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	VLMY30J2L1-GS08	Yellow, I _V = (5.6 to 14) mcd	AllnGaP
$VLMY30K2M1-GS18 \qquad \qquad Yellow, \ I_V = (9 \text{ to } 22.4) \text{ mcd} \qquad \qquad AllnGaP$ $VLMY30J2M1-GS08 \qquad \qquad Yellow, \ I_V = (5.6 \text{ to } 22.4) \text{ mcd} \qquad \qquad AllnGaP$	VLMY30J2L1-GS18	Yellow, I _V = (5.6 to 14) mcd	AllnGaP
VLMY30J2M1-GS08 Yellow, I _V = (5.6 to 22.4) mcd AllnGaP	VLMY30K2M1-GS08	Yellow, I _V = (9 to 22.4) mcd	AllnGaP
	VLMY30K2M1-GS18	Yellow, I _V = (9 to 22.4) mcd	AllnGaP
VLMY30J2M1-GS18 Yellow, I _V = (5.6 to 22.4) mcd AlInGaP	VLMY30J2M1-GS08	Yellow, I _V = (5.6 to 22.4) mcd	AllnGaP
	VLMY30J2M1-GS18	Yellow, I _V = (5.6 to 22.4) mcd	AllnGaP

ABSOLUTE MAXIMUM RATINGS (T _{amb} = 25 °C, UNLESS OTHERWISE SPECIFIED) VLM30					
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT	
Reverse voltage 1)		V _R	6	V	
DC forward current		I _F	15	mA	
Surge forward current	t _p ≤ 10 μs	I _{FSM}	0.1	Α	
Power dissipation		P _V	40	mW	
Junction temperature		T _j	125	°C	
Operating temperature range		T _{amb}	- 40 to + 100	°C	
Storage temperature range		T _{stg}	- 40 to + 100	°C	
Thermal resistance junction/ ambient	Mounted on PC board (pad size > 16 mm ²)	R _{thJA}	400	K/W	

Note:

1) Driving the LED in reverse direction is suitable for short term application



PARAMETER	TEST CONDITION	PART	SYMBOL	MIN.	TYP.	MAX.	UNIT
	I _F = 2 mA	VLMS3000	I _V	2.8			mcd
	I _F = 10 mA	VLMS3000	I _V		20		mcd
	I _F = 2 mA	VLMS30J1K2	I _V	4.5		11.2	mcd
Luminous intensity ¹⁾	I _F = 2 mA	VLMS30K1L2	I _V	7.1		18	mcd
	I _F = 2 mA	VLMS30J1L2	I _V	4.5		18	mcd
	I _F = 2 mA	VLMS30J2K2	I _V	5.6		11.2	mcd
	I _F = 2 mA	VLMS30K2L2	I _V	9		18	mcd
Dominant wavelength	I _F = 2 mA		λ_{d}	624		636	nm
Peak wavelength	I _F = 2 mA		λ_{p}		635		nm
Angle of half intensity	I _F = 2 mA		φ		± 60		deg
Forward voltage	I _F = 2 mA		V _F		1.8	2.2	V
Reverse voltage	I _R = 10 μA		V _R	6	15		V

¹⁾ In one packing unit $I_{Vmax}/I_{Vmin.} \le 1.6$

OPTICAL AND ELECTRICAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified) VLMO30, ORANGE							
PARAMETER	TEST CONDITION	PART	SYMBOL	MIN.	TYP.	MAX.	UNIT
	I _F = 2 mA	VLMO3000	I _V	5.6			mcd
	I _F = 10 mA	VLMO3000	I _V		50		mcd
Luminous intensity 1)	I _F = 2 mA	VLMO30K1L2	I _V	7.1		18	mcd
	I _F = 2 mA	VLMO30L1M2	I _V	11.2		28	mcd
	I _F = 2 mA	VLMO30K1M2	I _V	7.1		28	mcd
Dominant wavelength	I _F = 2 mA		λ_{d}	600		609	nm
Peak wavelength	I _F = 2 mA		λ_{p}		610		nm
Angle of half intensity	I _F = 2 mA		φ		± 60		deg
Forward voltage	I _F = 2 mA		V _F		1.8	2.2	V
Reverse voltage	I _R = 10 μA		V_R	6	15		V

Note:

1) In one packing unit $I_{Vmax}/I_{Vmin.} \le 1.6$

PARAMETER	TEST CONDITION	PART	SYMBOL	MIN.	TYP.	MAX.	UNIT
	I _F = 2 mA	VLMY3000	I _V	4.5			mcd
	I _F = 10 mA	VLMY3000	I _V		50		mcd
1)	I _F = 2 mA	VLMY3001	I _V	7.1		18	mcd
Luminous intensity 1)	I _F = 2 mA	VLMY30J2L1	I _V	5.6		14	mcd
	I _F = 2 mA	VLMY30K2M1	I _V	9		22.4	mcd
	I _F = 2 mA	VLMY30J2M1	I _V	5.6		22.4	mcd
Dominant wavelength	I _F = 2 mA		λ_{d}	581		594	nm
Peak wavelength	I _F = 2 mA		λ_{p}		585		nm
Angle of half intensity	I _F = 2 mA		φ		± 60		deg
Forward voltage	I _F = 2 mA		V _F		1.8	2.2	V
Reverse voltage	I _R = 10 μA		V _R	6	15		V

Note:

¹⁾ In one packing unit I_{Vmax.}/I_{Vmin.} ≤ 1.6



LUMINOUS INTENSITY CLASSIFICATION						
GROUP	LIGI	HT INTENSITY (r	ncd)			
STANDARD	OPTIONAL	MIN.	MAX.			
Н	1	2.8	3.55			
11	2	3.55	4.5			
J	1	4.5	5.6			
J	2	5.6	7.1			
К	1	7.1	9.0			
	2	9.0	11.2			
	1	11.2	14.0			
L	2	14.0	18.0			
М	1	18.0	22.4			
IVI	2	22.4	28.0			

N	Δ.	tΔ	•
1 1	U	ιc	•

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 grous which include only a few brightness groups. Only one group will be shipped in one 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 in any one reel. In order to ensure availability, single wavelength groups will not be orderable.

COLOR CLASSIFICATION					
	YEL	LOW	ORANGE		
GROUP		OM. WAVE	ENGTH (nr	n)	
	MIN.	MAX.	MIN.	MAX.	
1	581	584			
2	583	586	600	603	
3	585	588	602	605	
4	587	590	604	607	
5	589	592	606	609	
6	591	594			

Note

Wavelengths are tested at a current pulse duration of 25 ms and an accuracy of \pm 1 nm.

CROSSING TABLE	
VISHAY	OSRAM
VLMO30K1L2	LOT67K-K1L2
VLMO30K1M2	LOT67K-K1M2
VLMO30L1M2	LOT67K-L1M2
VLMS30J1K2	LST67K-J1K2
VLMS30J1L2	LST67K-J1L2
VLMS30K1L2	LST67K-K1L2
VLMY30J2L1	LYT67K-J2L1
VLMY30J2M1	LYT67K-J2M1
VLMY30K2M1	LYT67K-K2M1

TYPICAL CHARACTERISTICS (T_{amb} = 25 °C, unless otherwise specified)

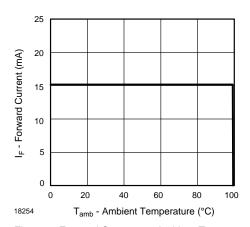


Figure 1. Forward Current vs. Ambient Temperature

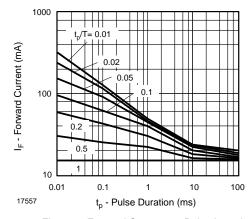
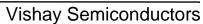


Figure 2. Forward Current vs. Pulse Length





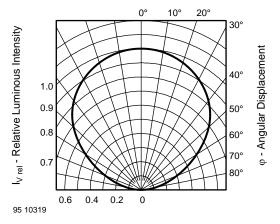


Figure 3. Rel. Luminous Intensity vs. Angular Displacement

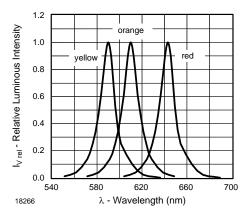


Figure 4. Relative Intensity vs. Wavelength

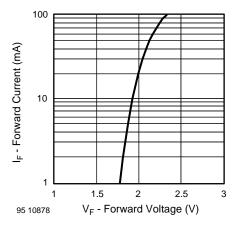


Figure 5. Forward Current vs. Forward Voltage

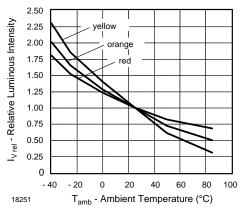


Figure 6. Rel. Luminous Intensity vs. Ambient Temperature

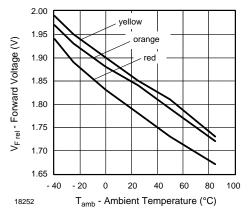


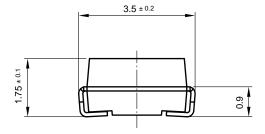
Figure 7. Forward Voltage vs. Ambient Temperature

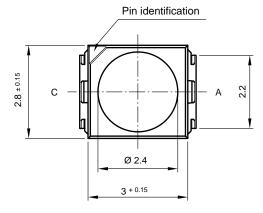
VLMO30.., VLMS30.., VLMY30..

Vishay Semiconductors

PACKAGE DIMENSIONS in millimeters





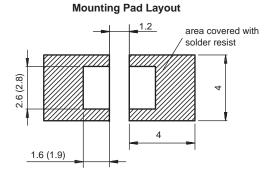


Drawing-No.: 6.541-5067.01-4

Issue: 5; 04.11.08

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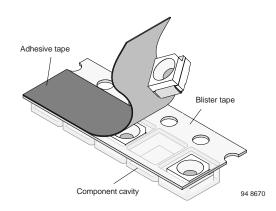




METHOD OF TAPING/POLARITY AND TAPE AND REEL

SMD LED (VLM.3 - 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...

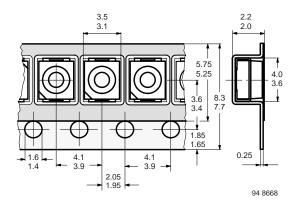


Figure 8. Tape Dimensions in mm for PLCC-2

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

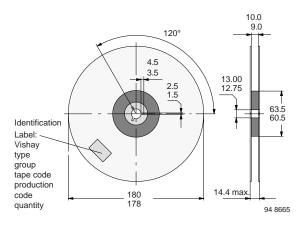


Figure 9. Reel Dimensions - GS08

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

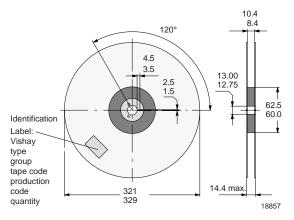


Figure 10. Reel Dimensions - GS18

SOLDERING PROFILE

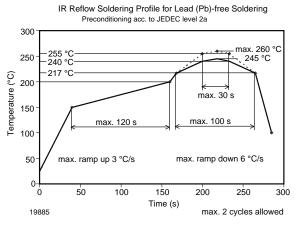


Figure 11. Vishay Lead (Pb)-free Reflow Soldering Profile (acc. to J-STD-020)

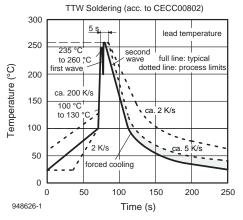
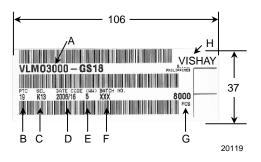


Figure 12. Double Wave Soldering of Opto Devices (all Packages)

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 3 = code for color group

- D) Date code year/week
- E) Day code (e.g. 5: Friday)
- F) Batch no.
- G) Total quantity
- H) Company code



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