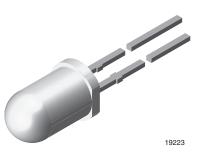
TLHF5400



Vishay Semiconductors

High Intensity LED, Ø 5 mm Tinted Diffused Package



DESCRIPTION

This device has been designed to meet the increasing demand for extremely bright yellow LEDs.

It is housed in a 5 mm tinted diffused plastic package. Despite of the wide viewing angle this device provides a high luminous intensity.

PRODUCT GROUP AND PACKAGE DATA

- Product group: LED
- · Package: 5 mm
- · Product series: standard
- Angle of half intensity: ± 30°

FEATURES

- AllnGaP technology
- Standard T-1¾ package
- Small mechanical tolerances
- Suitable for DC and high peak current
- Wide viewing angle
- Very high intensity
- Luminous intensity categorized
- Material categorization:
- For definitions of compliance please see www.vishay.com/doc?99912

APPLICATIONS

- Status lights
- Off/on indicator
- Lightpipe
- Outdoor display
- Medical instruments
- Maintenance lights
- Legend lights

PARTS TABLE														
PART	COLOR	LUMINOUS INTENSITY (mcd)		at I _F (mA)	WAVELENGTH (nm)		at I _F (mA)	FORWARD VOLTAGE (V)		at I _F (mA)	TECHNOLOGY			
		MIN.	TYP.	MAX.	(1174)	MIN.	TYP.	MAX.	(111-7)	MIN.	TYP.	MAX.	(11)4)	
TLHF5400	Soft orange	16	160	-	10	598	605	611	10	-	2	2.6	20	AllnGaP on GaAs

ABSOLUTE MAXIMUM RATINGS (Tamb = 25 °C unless otherwise specified) TI HE5400

ILNF3400							
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT			
Reverse voltage		V _R	5	V			
DC forward current	$T_{amb} \le 65 \ ^{\circ}C$	١ _F	30	mA			
Surge forward current	$t_p \le 10 \ \mu s$	I _{FSM}	0.1	А			
Power dissipation	$T^{amb} \le 65 \ ^{\circ}C$	P ^V	80	mW			
Junction temperature		Tj	100	°C			
Operating temperature range		T _{amb}	- 40 to + 100	°C			
Storage temperature range		T _{stg}	- 55 to + 100	°C			
Soldering temperature	$t \leq 5$ s, 2 mm from body	T _{sd}	260	°C			
Thermal resistance junction/ambient		R _{thJA}	350	K/W			

OPTICAL AND ELECTRICAL CHARACTERISTICS (Tamb = 25 °C, unless otherwise specified) **TLHF5400. SOFT ORANGE**

PARAMETER	TEST CONDITION	SYMBOL	MIN.	TYP.	MAX.	UNIT		
Luminous intensity (1)	I _F = 10 mA	I _V	16	160	-	mcd		
Dominant wavelength	I _F = 10 mA	λ _d	598	605	611	nm		
Peak wavelength	I _F = 10 mA	λρ	-	610	-	nm		
Angle of half intensity	I _F = 10 mA	φ	-	± 30	-	deg		
Forward voltage	I _F = 20 mA	V _F	-	2	2.6	V		
Reverse voltage	I _R = 10 μA	V _R	5	-	-	V		
Junction capacitance	$V_R = 0 V$, f = 1 MHz	Cj	-	15	-	pF		

Note

⁽¹⁾ In one packing unit $I_{Vmin.}/I_{Vmax.} \le 0.5$

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RoHS COMPLIANT HALOGEN

FREE

GREEN

(5-2008)



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

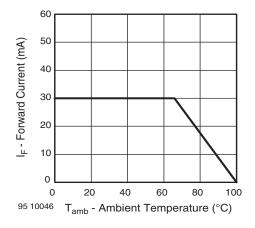


Fig. 1 - Forward Current vs. Ambient Temperature

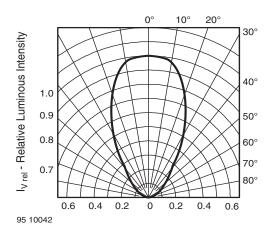


Fig. 2 - Relative Luminous Intensity vs. Angular Displacement

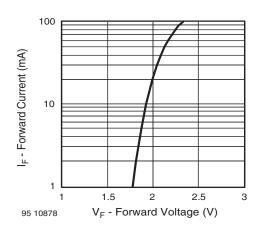


Fig. 3 - Forward Current vs. Forward Voltage

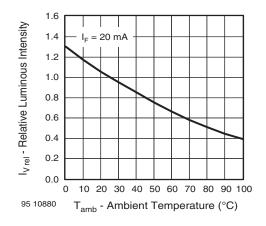


Fig. 4 - Relative Luminous Intensity vs. Ambient Temperature

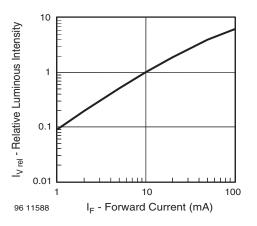


Fig. 5 - Relative Luminous Intensity vs. Forward Current

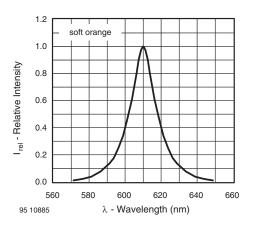
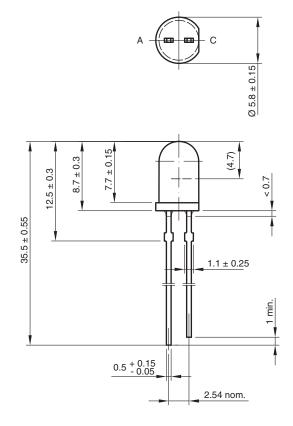


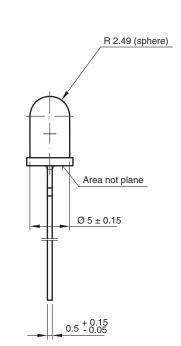
Fig. 6 - Relative Intensity vs. Wavelength

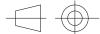


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PACKAGE DIMENSIONS in millimeters







technical drawings according to DIN specifications

6.544-5258.02-4 Issue: 7; 23.07.10 95 10916



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