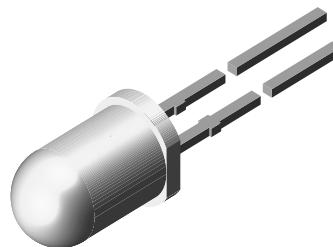


## Universal LED in Ø 5 mm Tinted Diffused Package

### Features

- For DC and pulse operation
- Luminous intensity categorized
- Standard Ø 5 mm (T-1½) package
- TLUR54.. with stand-offs
- Lead-free device



19223



### Applications

General indicating and lighting purposes

### Parts Table

Part	Color, Luminous Intensity	Angle of Half Intensity ( $\pm\phi$ )	Technology
TLUR5400	Red, $I_V > 4$ mcd	30 °	GaAsP on GaAs
TLUR5401	Red, $I_V = (4$ to $32)$ mcd	30 °	GaAsP on GaAs

### Absolute Maximum Ratings

$T_{amb} = 25$  °C, unless otherwise specified

#### TLUR54..

Parameter	Test condition	Symbol	Value	Unit
Reverse voltage		$V_R$	6	V
DC Forward current		$I_F$	20	mA
Surge forward current	$t_p \leq 10$ µs	$I_{FSM}$	1	A
Power dissipation	$T_{amb} \leq 65$ °C	$P_V$	60	mW
Junction temperature		$T_j$	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		$R_{thJA}$	500	K/W

**Optical and Electrical Characteristics** $T_{amb} = 25 \text{ }^{\circ}\text{C}$ , unless otherwise specified**Red**

TLUR540..

Parameter	Test condition	Part	Symbol	Min	Typ.	Max	Unit
Luminous intensity <sup>1)</sup>	$I_F = 10 \text{ mA}$	TLUR5400	$I_V$	4	15		mcd
		TLUR5401	$I_V$	4	15	32	mcd
Dominant wavelength	$I_F = 10 \text{ mA}$		$\lambda_d$		630		nm
Peak wavelength	$I_F = 10 \text{ mA}$		$\lambda_p$		640		nm
Angle of half intensity	$I_F = 10 \text{ mA}$		$\varphi$		$\pm 30$		deg
Forward voltage	$I_F = 20 \text{ mA}$		$V_F$		2	3	V
Reverse voltage	$I_R = 10 \mu\text{A}$		$V_R$	6	15		V
Junction capacitance	$V_R = 0, f = 1 \text{ MHz}$		$C_j$		50		pF

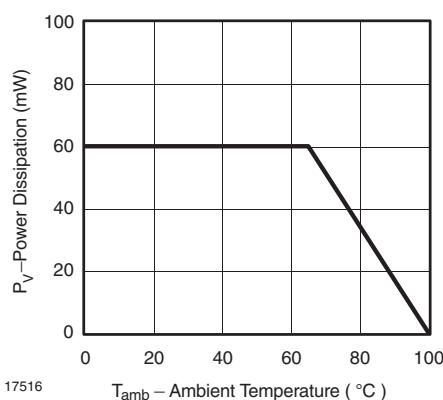
<sup>1)</sup> in one Packing Unit  $I_V_{min}/I_V_{max} \leq 0.5$ **Typical Characteristics** ( $T_{amb} = 25 \text{ }^{\circ}\text{C}$  unless otherwise specified)

Figure 1. Power Dissipation vs. Ambient Temperature

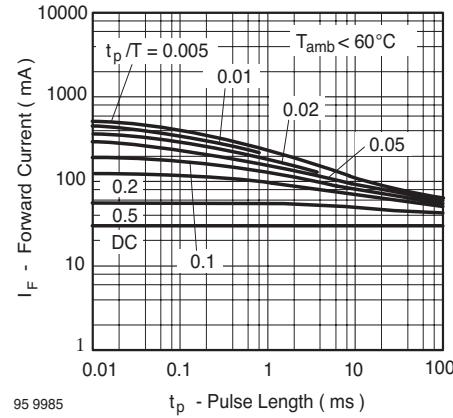


Figure 3. Pulse Forward Current vs. Pulse Duration

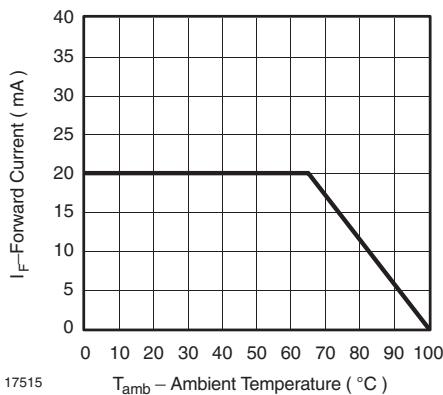


Figure 2. Forward Current vs. Ambient Temperature

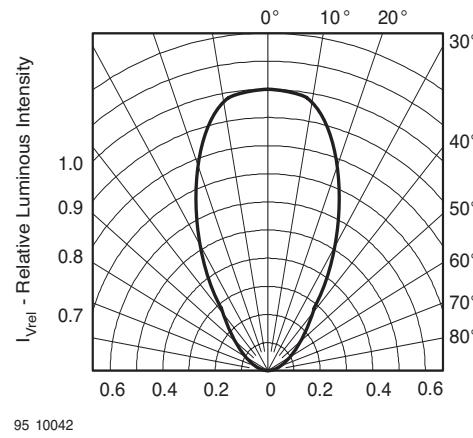
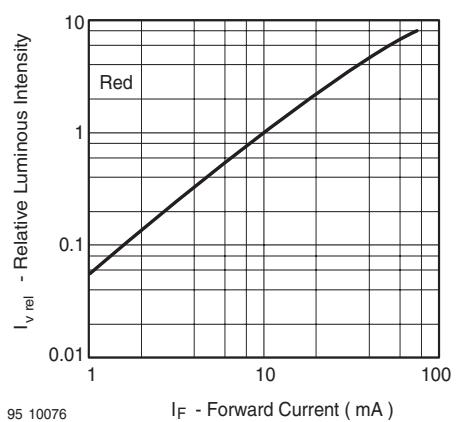
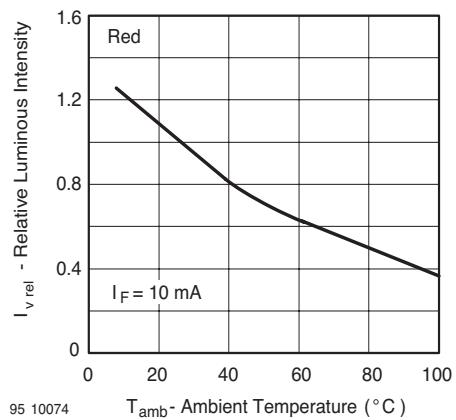
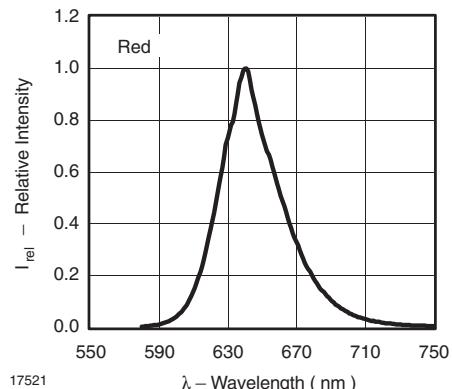
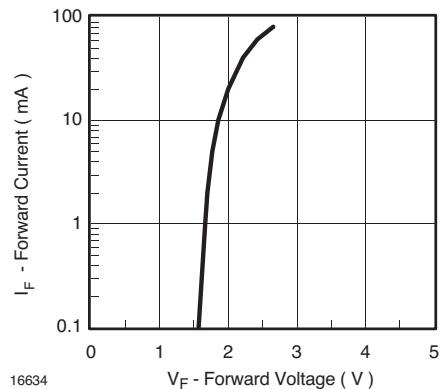
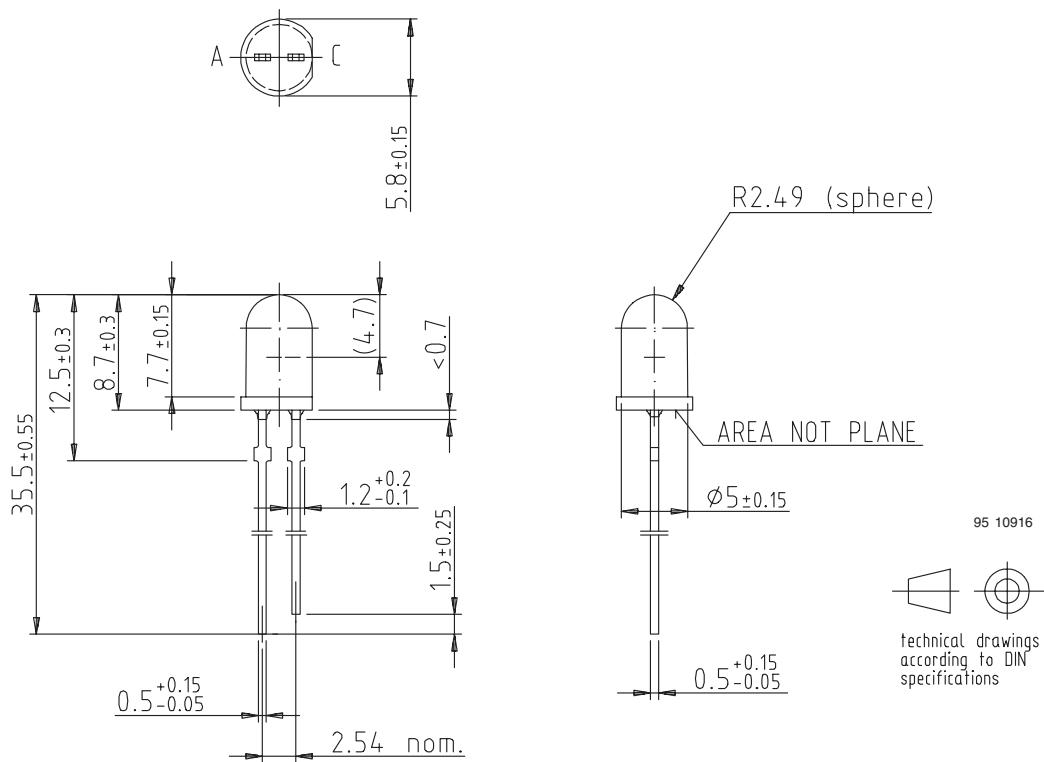


Figure 4. Rel. Luminous Intensity vs. Angular Displacement



### Package Dimensions in mm



## Ozone Depleting Substances Policy Statement

It is the policy of **Vishay Semiconductor GmbH** to

1. Meet all present and future national and international statutory requirements.
2. Regularly and continuously improve the performance of our products, processes, distribution and operating systems with respect to their impact on the health and safety of our employees and the public, as well as their impact on the environment.

It is particular concern to control or eliminate releases of those substances into the atmosphere which are known as ozone depleting substances (ODSs).

The Montreal Protocol (1987) and its London Amendments (1990) intend to severely restrict the use of ODSs and forbid their use within the next ten years. Various national and international initiatives are pressing for an earlier ban on these substances.

**Vishay Semiconductor GmbH** has been able to use its policy of continuous improvements to eliminate the use of ODSs listed in the following documents.

1. Annex A, B and list of transitional substances of the Montreal Protocol and the London Amendments respectively
2. Class I and II ozone depleting substances in the Clean Air Act Amendments of 1990 by the Environmental Protection Agency (EPA) in the USA
3. Council Decision 88/540/EEC and 91/690/EEC Annex A, B and C (transitional substances) respectively.

**Vishay Semiconductor GmbH** can certify that our semiconductors are not manufactured with ozone depleting substances and do not contain such substances.

### We reserve the right to make changes to improve technical design and may do so without further notice.

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Vishay

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ООО "ЛайфЭлектроникс"

"LifeElectronics" LLC

ИНН 7805602321 КПП 780501001 Р/С 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 30101810900000000703 БИК 044030703

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С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибуторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помочь разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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