LED Lamp TLYE180P

## InGaAIP Yellow Light Emission

#### Unit in mm

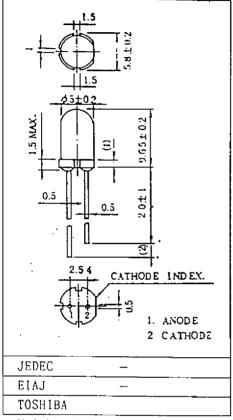
#### **Panel Circuit Indicator**

5 mm Diameter (T1-3/4)

- New Emission Material (InGaAIP) Yellow LED
- Peak Wavelength: λ p = 590 nm
- · All Plastic Mold Type
- · Colorless Clear Lens
- Low Drive Current, High Intensity Yellow Light Emission
  - Recommended Forward Current: I<sub>F</sub> = 15 ~ 20 mA (DC)
- · All Plastic Molded Lens
  - Provides an Excellent ON-OFF Contrast Ratio
- · Fast Response Time
  - Capable of Pulse Operation
- · High Power Luminous Intensity
  - Suitable for Outdoor Message Signboard
  - Automotive use
- · Straight Lead (Standard)
- · High Reliability
  - T<sub>stg</sub>: -40 ~ 120°C

## Maximum Ratings ( $T_a = 25^{\circ}C$ )

Characteristic	Symbol	Rating	Unit
Forward Current (DC)	I <sub>F</sub>	30	mA
Reverse Voltage	V <sub>R</sub>	4	V
Power Dissipation	$P_{D}$	75	mA
Operating Temperature Range	T <sub>opr</sub>	<b>−30 ~ 85</b>	°C
Storage Temperature Range	T <sub>stg</sub>	<b>−40 ~ 120</b>	°C



Weight: 0.31g

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# Electro-Optical Characteristics ( $T_a = 25^{\circ}C$ )

Characteristic		Symbol	Test Condition	Min.	Тур.	Max.	Unit
Forward Voltage		V <sub>F</sub>	I <sub>F</sub> = 20 mA	1	2.1	2.5	V
Reverse Current		I <sub>R</sub>	V <sub>R</sub> = 4 V	-	-	50	μА
Luminous Intensity	TLYE180P	l <sub>V</sub>	I <sub>F</sub> = 20 mA (NOTE)	(850)	_	_	med
				-	_	_	
				-	_	-	
Peak Emission Wavelength		$\lambda_{p}$	I <sub>F</sub> = 20 mA	-	590	_	nm
Spectral Line Half Width		Δλ	I <sub>F</sub> = 20 mA	1	13	_	nm

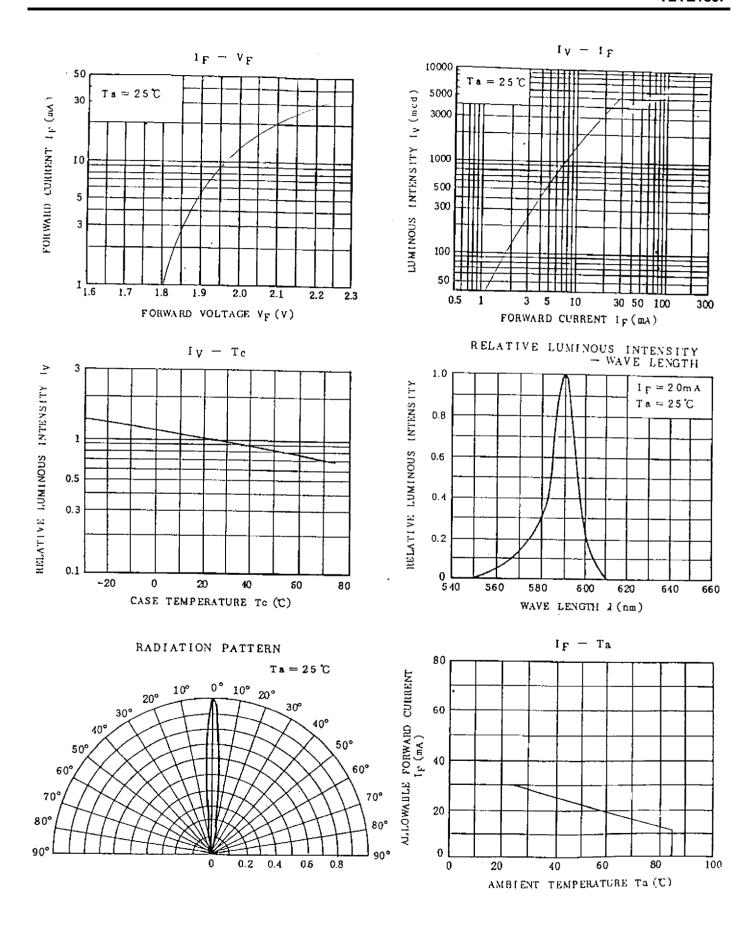
(NOTE) Rank selection carried out under next standard range respectively, although it needs  $\pm 15\%$  additional for guaranteed limits. S:1000-2000mcd, T:1800-3600mcd, U:3200-6400mcd .

#### Precaution

Please be careful of the following:

- 1. Soldering temperature: 260°C MAX. Soldering time: 3 sec MAX. (Soldering portion of lead: up to 2 mm from the body of the device).
- 2. If the lead is formed, the lead should be formed up to 5 mm from the body of the device without forming stress. Soldering shall be performed after lead forming.

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