

## AND124Y

### Standard LED

#### T-1 Package (5 mm)

The yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow Light Emitting Diode

### Features

- Low power consumption
- Popular T-1 diameter package
- General purpose leads
- Reliable and rugged
- Long life - solid state reliability
- Available on tape and rell
- RoHS compliant

### Maximum Ratings (Ta - 25 °C)

Color		Lens Desc.	Iv (mcd) [2] @ 10 mA		Viewing Angle 2θ1/2 (Deg)
LED	Lens		Min.	Typ.	
Yellow	Yellow	Diffused	8	18	60

Notes: 1) θ 1/2 is the angle from optical centering where the luminous intensity is 1/2 of the optical peak value.

2) luminous intensity / luminous flux: ± 15%

### Absolute Maximum Ratings (Ta - 25 °C)

Item	Symbol	Rating (Green)	Unit
Power Dissipation	P <sub>D</sub>	75	mW
DC Forward Current	I <sub>F</sub>	30	mA
Reverse Voltage	V <sub>R</sub>	5	V
Peak Forward Current [1]		140	mA
Operating Temperature Range	T <sub>OPR</sub>	-40 to +85	°C
Lead Solder Temperature [2]		260°C for 3 seconds	
Lead Solder Temperature [3]		260°C for 5 seconds	

Notes: 1) 1/10 Duty Cycle; 0.1 ms Pulse Width

2) 2 mm below package base

3) 5 mm below package base

### Electrical/Optical Characteristics at Ta=25° C

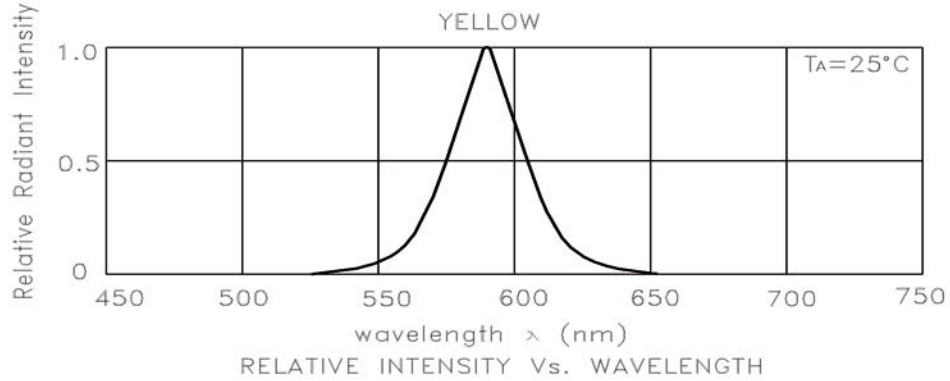
Item	Symbol	Test Condition	Device	Minimum	Typical	Maximum	Unit
Peak Wavelength	λ <sub>peak</sub>	I <sub>F</sub> = 20 mA	Yellow	590	-	-	nm
Dominant Wavelength	λ <sub>D</sub> [1]	I <sub>F</sub> = 20 mA	Yellow	588	-	-	nm
Spectral Line Half Width	Δλ 1/2	I <sub>F</sub> = 20 mA	Yellow	35	-	-	nm
Capacitance	C	V <sub>F</sub> = 0V; f=1MHz	Yellow	20	-	-	pF
Forward Voltage	V <sub>F</sub> [2]	I <sub>F</sub> = 20 mA	Yellow	2.1	-	2.5	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> = 5 V	Yellow	-	-	10	μA
	λ <sub>P</sub>	I <sub>F</sub> = 15 mA	Yellow	-	565	-	nm
	λ	I <sub>F</sub> = 15 mA	Yellow	-	30	-	nm

Notes: 1) Wavelength ± 1 nm 2) Forward voltage ± 0.1V

Product specifications contained herein may be changed without prior notice. It is therefore advisable to contact Purdy Electronics before proceeding with the design of equipment incorporating this product.

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