

Features

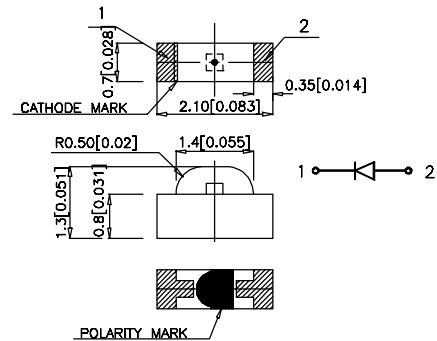
- 2.1mmx0.7mm SMT LED, 1.3mm THICKNESS.
- LOW POWER CONSUMPTION.
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- VARIOUS COLORS AND LENS TYPES AVAILABLE.

APJA2107PYC PURE YELLOW

Package Dimensions

Description

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



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.15 (0.006") unless otherwise noted.
3. Lead spacing is measured where the lead emerge package.
4. Specifications are subjected to change without notice.

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20 mA		Viewing Angle
			Min.	Typ.	
APJA2107PYC	PURE YELLOW (GaAsP/GaP)	WATER CLEAR	3	8	120°

Note:

1. $\theta 1/2$ is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at T_A=25°C

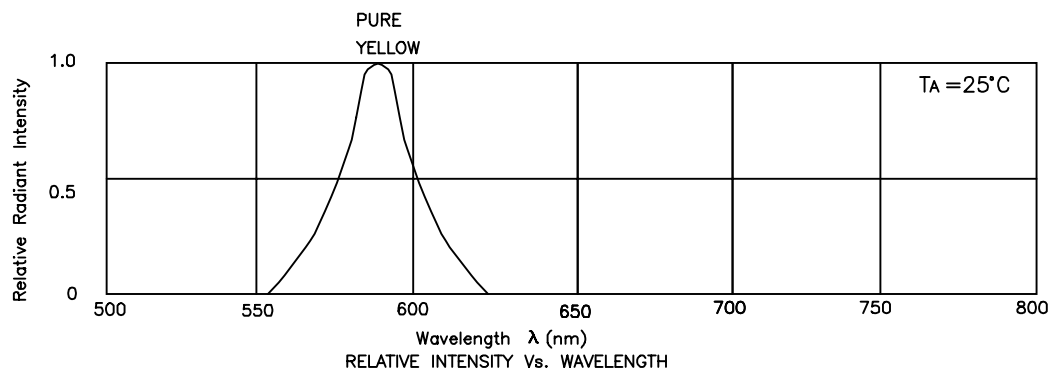
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	Pure Yellow	580		nm	IF=20mA
$\Delta\lambda_{1/2}$	Spectral Line Halfwidth	Pure Yellow	35		nm	IF=20mA
C	Capacitance	Pure Yellow	10		pF	VF=0V;f=1MHz
V _F	Forward Voltage	Pure Yellow	2.1	2.5	V	IF=20mA
I _R	Reverse Current	All		10	uA	VR = 5V

Absolute Maximum Ratings at T_A=25°C

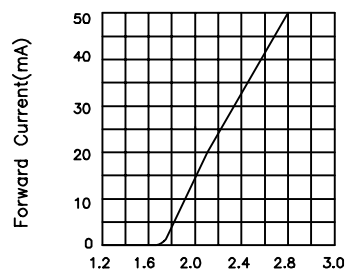
Parameter	Pure Yellow	Units
Power dissipation	105	mW
DC Forward Current	30	mA
Peak Forward Current [1]	150	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	

Note:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.



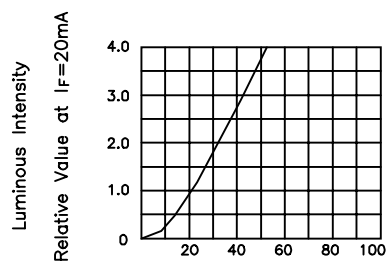
Pure Yellow APJA2107PYC



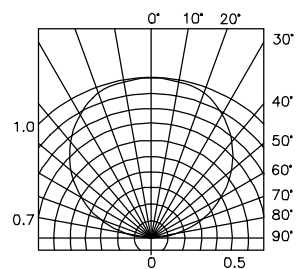
FORWARD CURRENT Vs. FORWARD VOLTAGE



FORWARD CURRENT DERATING CURVE

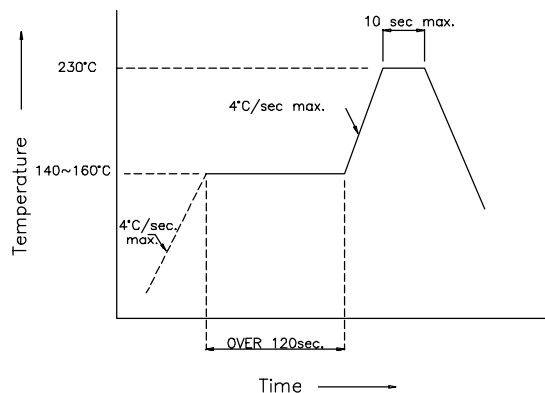


LUMINOUS INTENSITY Vs. FORWARD CURRENT

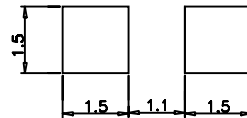


SPATIAL DISTRIBUTION

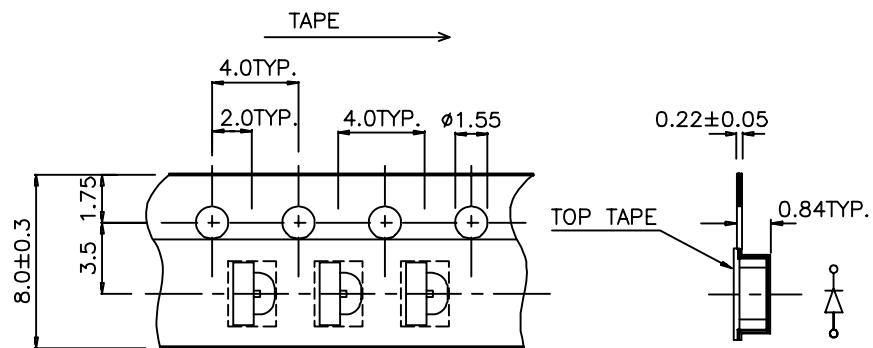
APJA2107PYC SMT Reflow Soldering Instructions



APJA2107PYC Recommended Soldering Pattern (Units : mm)



APJA2107PYC Tape Specifications (Units : mm)



Mouser Electronics

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