



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

HL-A-3528U19YC
YELLOW

Features

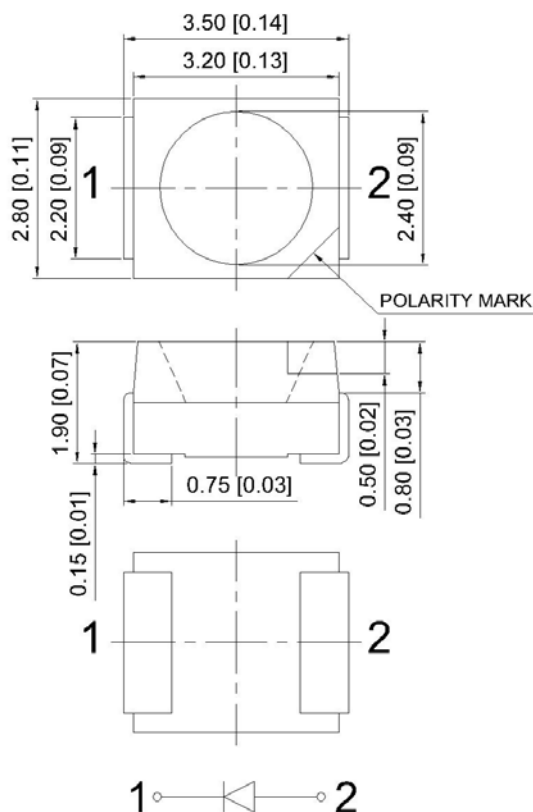
- SINGLE COLOR.
- PLCC-2 Package
- White package
- Suitable for all SMT assembly and solder process
- Available on tape and reel
- Package:2000pcs/reel

Description

The Yellow source color devices are made with Gallium PEosPEide Yellow Light Emitting Diode.

Applications

- Optical indicator
- Indicator and backlighting in telephone and fax
- Flat backlight for LCD,switch and Symbol
- Light pipe application
- General use

Package Dimensions


Notes:

1. All dimension units are millimeters.
2. All dimension tolerance is $\pm 0.2\text{mm}$ unless otherwise noted.
3. An epoxy meniscus may extend about 1.5mm down the leads.

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20mA		Viewing Angle
			Min.	TYP.	θ1/2
HL-A-3528U19YC	YELLOW (InGaAIP)	WATER CLEAR	355	600	120°

Note:

- θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
- the above luminous intensity measurement allowance tolerance ±10%.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Min.	TYP.	Units	Test Conditions
λD	Dominant Wavelength	Yellow	585	590	nm	IF=20mA
C	Capacitance	Yellow		45	pF	VF=0V;f=1MHz
VF	Forward Voltage	Yellow	1.8	2.0	V	IF=20mA
IR	Reverse Current	Yellow	—	5	uA	VR= 5V

Absolute Maximum Ratings at TA=25°C

Parameter	Yellow	Units
Power dissipation	70	mW
DC Forward Current	30	mA
Peak Forward Current [1]	140	mA
Reverse Voltage	5	V
Operating / Storage Temperature	-40°C To +80°C	

Note:

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

YELLOW HL-A-3528U19YC
Reliability Test Items And Conditions

The reliability of products shall be satisfied with items listed below.
 Confidence level :90% LTPD :10%

No.	Items	Test Condition	Test Hours/Cycles	Sample Size	Ac/Rc
1	Reflow	Temp:260°C±5°C Min.5 sec.	6 Min.	22Pcs.	0/1
2	Temperature Cycle	H:+100°C 15 min. ∞ 5 min L:-40°C 15 min.	300 Cycles	22Pcs.	0/1
3	Thermal Shock	H:+100°C 5 min. ∞ 10 sec. L:-10°C 5 min.	300 Cycles	22Pcs.	0/1
4	High Temperature Storage	Temp.:100°C	1000Hrs.	22Pcs.	0/1
5	Low Temperature Storage	Temp.: -40°C	1000Hrs.	22Pcs.	0/1
6	DC Operating Life	I _f =20mA	1000Hrs.	22Pcs.	0/1
7	High Temperature/High Humidity	85°C/85%RH	1000Hrs.	22Pcs.	0/1

