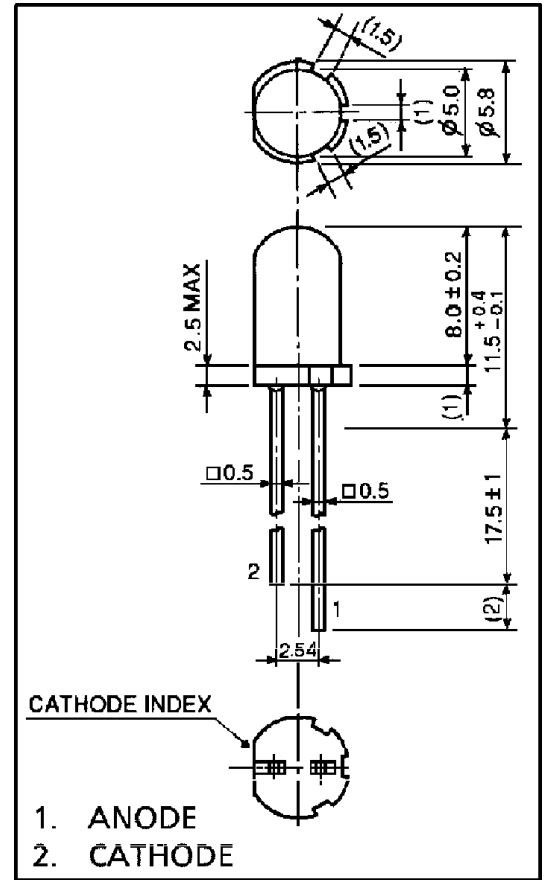


### Features

5mm Package  
 InGaAlP Technology  
 All Plastic Mold Type  
 Transparent Lens  
 High Intensity Light Emission  
 Excellent Low Current Light Output

### Applications

Outdoor Message Signs  
 Safety Equipment  
 Backlights



### Series Line-Up

Part Number	Color	Material
TLFGE18TP	Ultra Green	InGaAlP
TLGE18TP	Ultra Bright Yellow-Green	InGaAlP
TLPGE18TP	Super Green	InGaAlP
TLPYE18TP	Ultra Pure Yellow	InGaAlP

### Maximum Ratings (Ta=25°C)

Part Number	Forward Current I <sub>F</sub>	Reverse Voltage V <sub>R</sub>	Power Dissipation P <sub>D</sub>	Operating Temperature T <sub>opr</sub>	Storage Temperature T <sub>stg</sub>
TLFGE18TP	50	4.00	120.00	-40 ~ 100	-40 ~ 120
TLGE18TP	50	4.00	120.00	-40 ~ 100	-40 ~ 120
TLPGE18TP	50	4.00	120.00	-40 ~ 100	-40 ~ 120
TLPYE18TP	50	4.00	120.00	-40 ~ 100	-40 ~ 120
Unit	mA	V	mW	°C	°C

### Electrical and Optical Characteristics (Ta=25°C)

Part Number	PWL nm $\lambda_P$	Material	View Angle $2\theta_{1/2}$	Luminous Intensity $I_v$				Forward Voltage $V_F$				Rev Current $I_R$		
				min.	typ.	max.	IF@	min.	typ.	max.	IF@	max.	VR@	
TLFGE18TP	568	InGaAlP	30°	85.00	300.00	–	20mA	–	2.00	2.40	20mA	50	4V	
TLGE18TP	574	InGaAlP	30°	272.00	700.00	–	20mA	–	2.00	2.40	20mA	50	4V	
TLPGE18TP	562	InGaAlP	30°	85.00	200.00	–	20mA	–	2.10	2.40	20mA	50	4V	
TLPYE18TP	583	InGaAlP	30°	272.00	750.00	–	20mA	–	2.00	2.40	20mA	50	4V	
–	nm	–	deg	mcd				–	V			–	$\mu A$	–

### Precautions

- Soldering temperature: 260°C max, soldering time: 3 s max (soldering portion of lead: up to 2 mm from the body of the device).
- If the lead is formed, the lead should be formed up to 5 mm from the body of the device without forming stress to the resin. Soldering should be performed after lead forming.
- This visible LED lamp also emits some IR light. If a photodetector is located near the LED lamp, please ensure that it will not be affected by this IR light.

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