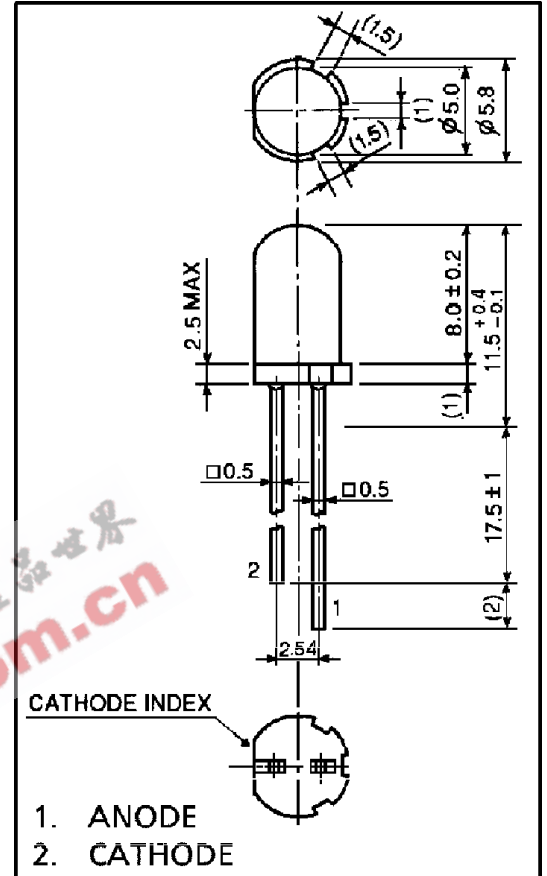


Features

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 _F	Reverse Voltage V _R	Power Dissipation P _D	Operating Temperature T _{opr}	Storage Temperature T _{stg}
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 λP	Material	View Angle 2θ _{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			μ 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.

NOTICE:

- TOSHIBA is continually working to improve the quality and reliability of its products. Nevertheless, semiconductor devices in general can malfunction or fail due to their inherent electrical sensitivity and vulnerability to physical stress. It is the responsibility of the buyer, when utilizing TOSHIBA products, to comply with the standards of safety in making a safe design for the entire system, and to avoid situations in which a malfunction or failure of such TOSHIBA products could cause loss of human life, bodily injury or damage to property.
- In developing your designs, please ensure that TOSHIBA products are used within specified operating ranges as set forth in the most recent TOSHIBA products specifications. Also, please keep in mind the precautions and conditions set forth in the "Handling Guide for Semiconductor Devices," or "TOSHIBA Semiconductor Reliability Handbook" etc..
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TLFGE18TP Graphs

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Toshiba TLxE18 Series LEDs

TLPYE18TP Graphs

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