TOSHIBA

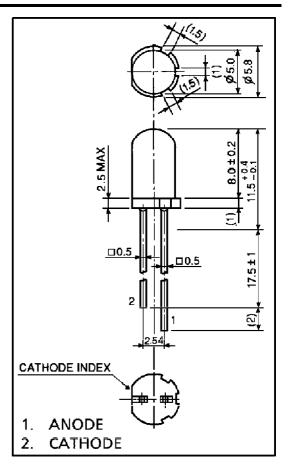
Toshiba TLxE18 Series LEDs

Features

5mm Package InGaAIP 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	InGaAIP		
TLGE18TP	Ultra Bright Yellow–Green	InGaAIP		
TLPGE18TP	Super Green	InGaAIP		
TLPYE18TP	Ultra Pure Yellow	InGaAIP		

Maximum Ratings (Ta=25°C)

Part Number	Forward Current IF	Reverse Voltage VR	Power Dissipation PD	Operating Temperature Topr	Storage Temperature Tstg
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



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Electrical and Optical Characteristics (Ta=25°C)

Part Number	$\frac{\text{PWL nm}}{\lambda\text{P}}$	Material	View Angle 201/2	Luminous Intensity			Forward Voltage V⊧				Rev Current		
			201/2	min.	typ.	max.	IF@	min.	typ.	max.	IF@	max.	VR@
TLFGE18TP	568	InGaAIP	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	InGaAIP	30 [°]	272.00	750.00	-	20mA	-	2.00	2.40	20mA	50	4V
-	nm	-	deg		mcd		-		v		-	μ Α	-

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..
- The TOSHIBA products listed in this document are intended for usage in general electronics applications (computer, personal equipment, office equipment, measuring equipment, industrial robotics, domestic appliances, etc.). These TOSHIBA products are neither intended nor warranted for usage in equipment that requires extraordinarily high quality and/or reliability or a malfunction or failure of which may cause loss of human life or bodily injury ("Unintended Usage"). Unintended Usage include atomic energy control instruments, airplane or spaceship instruments, transportation instruments, traffic signal instruments, combustion control instruments, medical instruments, all types of safety devices, etc.. Unintended Usage of TOSHIBA products listed in this document shall be made at the customer's own risk.
- Gallium arsenide (GaAs) is a substance used in the products described in this document. GaAs dust and fumes are toxic. Do not break, cut or pulverize the product, or use chemicals to dissolve them. When disposing of the products, follow the appropriate regulations. Do not dispose of the products with other industrial waste or with domestic garbage.
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TLFGE18TP Graphs

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TLPGE18TP Graphs

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