# TOSHIBA WWW.DZS

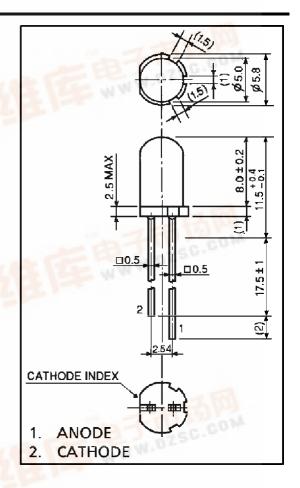
# Toshiba TLxE18 Series LEDs

### **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

Oeries Line-Op									
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	<del>-40</del> ~ 100	<b>−</b> 40 ~ 120		
TLGE18TP	50	4.00	120.00	<del>-40 ~ 100</del>	<b>−40 ~ 120</b>		
TLPGE18TP	50	4.00	120.00	<b>−</b> 40 ~ 100	<b>−40 ~ 120</b>		
TLPYE18TP	50	4.00	120.00	−40 ~ 100	<b>−40 ~ 120</b>		
Unit	mA	V	mW	°C	°C		







Electrical and Optical Characteristics (Ta=25°C)

Part Number	<b>PWL nm</b> λP	Material	View Angle	Luminous Intensity			Forward Voltage V <sub>F</sub>				Rev Current IR		
			<b>2θ</b> 1/2	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	InGaAIP	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		-		٧		ı	μ <b>A</b>	ı

#### **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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**TLFGE18TP Graphs** 



**TLGE18TP Graphs** 



**TLPGE18TP Graphs** 



**TLPYE18TP Graphs**