# TOSHIBA

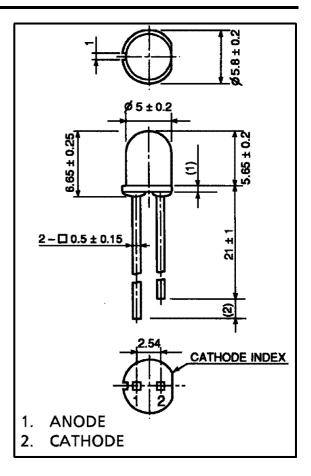
#### Features

5mm Package InGaAIP Technology All Plastic Mold Type Water Clear Lens Fast Response Time, Capable of Pulse Operation High Power Luminous Intensity Wide Radiation Pattern

#### Applications

Suitable for Backlighting

### Toshiba TLxE263 Series LEDs



#### Series Line-Up

Part Number	Color	Material		
TLGE263P	Ultra Bright Yellow Green	InGaAIP		
TLOE263AP	Ultra Bright Orange	InGaAIP		
TLRE263AP	Ultra Bright Red	InGaAIP		
TLYE263AP	Ultra Bright Yellow	InGaAIP		

#### Maximum Ratings (Ta=25°C)

Part Number	Forward Current	Reverse Voltage VR	Power Dissipation PD	Operating Temperature Topr	Storage Temperature Tstg		
TLGE263P	50	4	140.00	-30 ~ 85	-40 ~ 120		
TLOE263AP	50	4	125.00	-30 ~ 85	-40 ~ 120		
TLRE263AP	50	4	125.00	-30 ~ 85	-40 ~ 120		
TLYE263AP	50	4	125.00	-30 ~ 85	-40 ~ 120		
Unit	mA	V	mW	°C	°C		

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Part Number	<b>PWL nm</b> λP	Material	View Angle	Luminous Intensity			Forward Voltage				Rev Current		
			<b>2</b> θ1/2	min.	typ.	max.	IF@	min.	typ.	max.	IF@	max.	VR@
TLGE263P	574	InGaAIP	90 <sup>°</sup>	27.20	150.00	-	20mA	-	2.27	2.80	20mA	50	4V
TLOE263AP	612	InGaAIP	90 <sup>°</sup>	47.60	260.00	_	20mA	-	1.95	2.40	20mA	50	4V
TLRE263AP	644	InGaAIP	90 <sup>°</sup>	27.20	80.00	-	20mA	-	1.85	2.40	20mA	50	4V
TLYE263AP	590	InGaAIP	90 <sup>°</sup>	47.60	170.00	-	20mA	-	2.10	2.50	20mA	50	4V
-	nm	-	deg		mcd		-		V		I	μ <b>Α</b>	-

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

#### 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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