

TOSHIBA

Features

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

Applications

Backlight Safety Equipment Traffic Signals

Series Line-Up

OCTICS EITIC-OP									
Part Number	Color	Material							
TLOH16TP	Ultra Bright Orange	InGaAlP							
TLRMH16TP	Ultra Red	InGaAlP							
TLSH16TP	Ultra Bright High Efficency Red	InGaAlP							
TLYH16TP	Ultra Bright Yellow	InGaAlP							

Maximum Ratings (Ta=25°C)

Part Number	Forward Current IF	Reverse Voltage VR	Power Dissipation PD	Operating Temperature Topr	Storage Temperature T _{stg}
TLOH16TP	50	4.00	120.00	−40 ~100	-40 ~ 120
TLRMH16TP	50	4.00	120.00	−40 ~100	-40 ~ 120
TLSH16TP	50	4.00	120.00	−40 ~100	-40 ~ 120
TLYH16TP	50	4.00	120.00	−40 ~100	-40 ~ 120
Unit	mA	V	mW	°C	°C

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Toshiba TLxH16 Series LEDs

Electrical and Optical Characteristics (Ta=25°C)

Part Number	PWL nm λP	Material	View Angle	Luminous Intensity			Forward Voltage VF				Rev Current		
			2θ 1/2	min.	typ.	max.	IF@	min.	typ.	max.	IF@	max.	VR@
TLOH16TP	612	InGaAIP	25°	850.00	2300.00	-	20mA	-	2.00	2.40	20mA	50	4V
TLRMH16TP	636	InGaAIP	25°	476.00	1500.00	-	20mA	-	1.90	2.40	20mA	50	4V
TLSH16TP	623	InGaAIP	25°	850.00	1900.00	-	20mA	-	2.00	2.40	20mA	50	4V
TLYH16TP	590	InGaAIP	25°	850.00	2200.00	-	20mA	-	2.00	2.40	20mA	50	4V
-	nm	-	deg		mcd		-		٧		-	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.
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TLOH16TP Graphs







TLRMH16TP Graphs



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TLSH16TP Graphs







TLYH16TP Graphs

