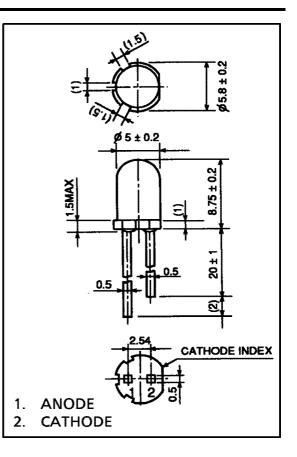
#### Features

5 mm Package InGaAIP Technology All Plastic Mold Type Fast Response Time, Capable of Pulse Operation High Power Luminous Intensity

#### Applications

Outdoor Message Signboard Safety equipment Automotive

### Toshiba TLxH156 Series LEDs



#### Series Line-Up

Part Number	Color	Material		
TLOH156P	Ultra Bright Orange	InGaAIP		
TLRH156P	Ultra Bright Red	InGaAlP		
TLRMH156P	Ultra High Efficiency Red	InGaAIP		
TLSH156P	Ultra Bright High Efficency Red	InGaAIP		
TLYH156P	Ultra Bright Yellow	InGaAIP		

#### Maximum Ratings (Ta=25°C)

Part Number	Forward Current IF	Reverse Voltage VR	Power Dissipation PD	Operating Temperature Topr	Storage Temperature Tstg		
TLOH156P	50	4	125.00	-30 ~ 85	-40 ~ 120		
TLRH156P	50	4	125.00	-30 ~ 85	-40 ~ 120		
TLRMH156P	50	4	125.00	-40 ~ 100	-40 ~ 120		
TLSH156P	50	4	125.00	-30 ~ 85	-40 ~ 120		
TLYH156P	50	4	125.00	-30 ~ 85	-40 ~ 120		
Unit	mA	V	mW	°C	°C		

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## Toshiba TLxH156 Series LEDs

Part Number	<b>PWL nm</b> λP	Material	View Angle	Luminous Intensity			Forward Voltage V <sub>F</sub>				Rev Current		
			<b>2</b> θ1/2	min.	typ.	max.	IF@	min.	typ.	max.	IF@	max.	VR@
TLOH156P	612	InGaAIP	30 <sup>°</sup>	476.00	1500.00	_	20mA	-	2.10	2.50	20mA	50	4V
TLRH156P	644	InGaAIP	30 <sup>°</sup>	272.00	800.00	_	20mA	-	1.90	2.50	20mA	50	4V
TLRMH156P	636	InGaAIP	25 <sup>°</sup>	476.00	900.00	_	20mA	-	2.05	2.50	20mA	50	4V
TLSH156P	623	InGaAIP	30 <sup>°</sup>	476.00	1400.00	_	20mA	-	2.10	2.50	20mA	50	4V
TLYH156P	590	InGaAIP	30 <sup>°</sup>	476.00	1400.00	_	20mA	-	2.10	2.50	20mA	50	4V
-	nm	-	deg		mcd		-		۷		-	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:

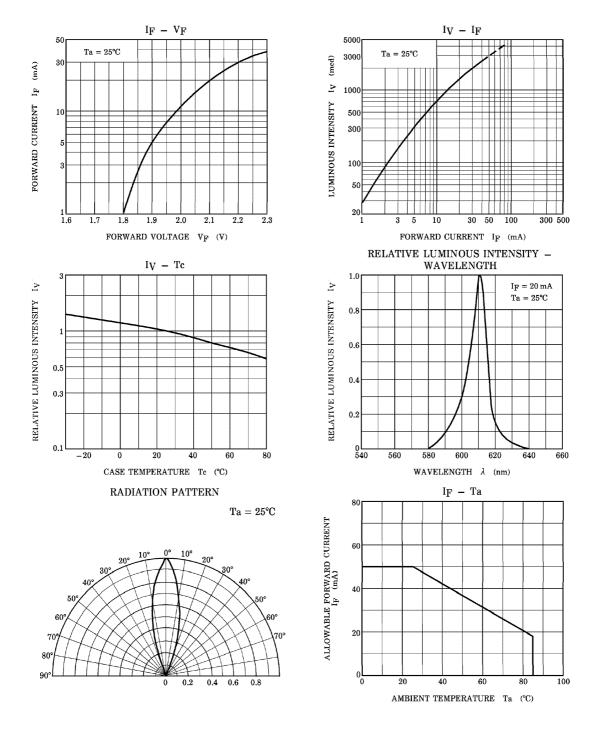
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- In developing your designs, please ensure that TOSHIBA products are used within specified operating ranges as set forth in the most recent TOSHIBA products specifications. Also, please keep in mind the precautions and conditions set forth in the "Handling Guide for Semiconductor Devices," or "TOSHIBA Semiconductor Reliability Handbook" etc..
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## Toshiba TLxH156 Series LEDs

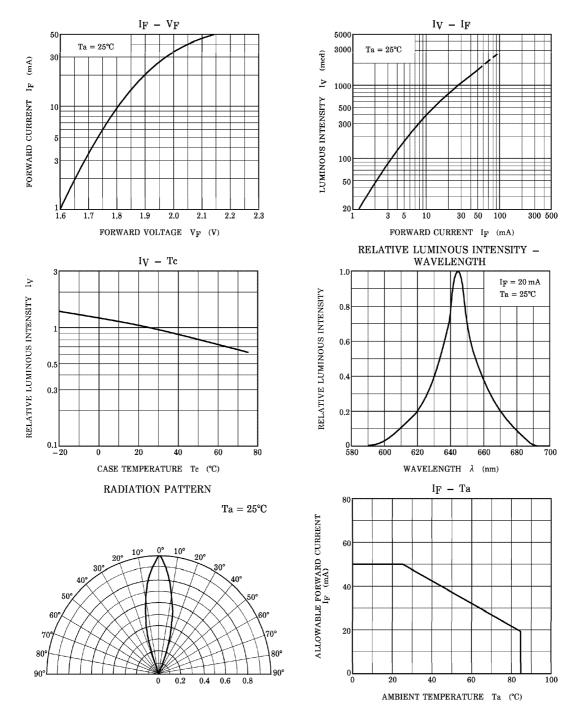
### **TLOH156P Graphs**



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## Toshiba TLxH156 Series LEDs

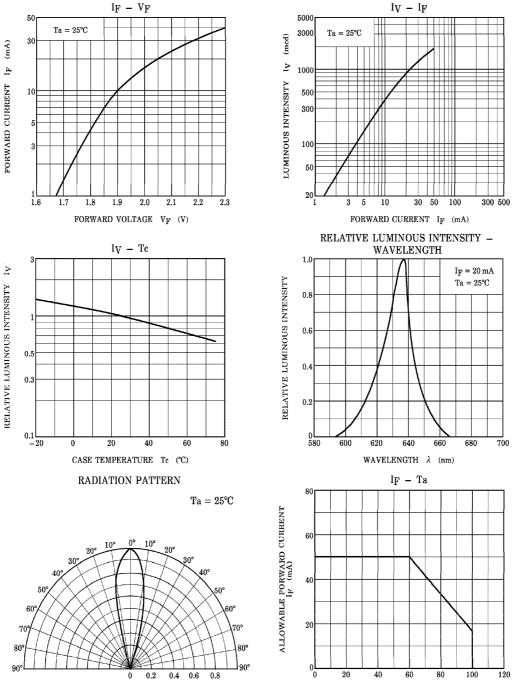
### **TLRH156P Graphs**



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## Toshiba TLxH156 Series LEDs

### **TLRMH156P Graphs**

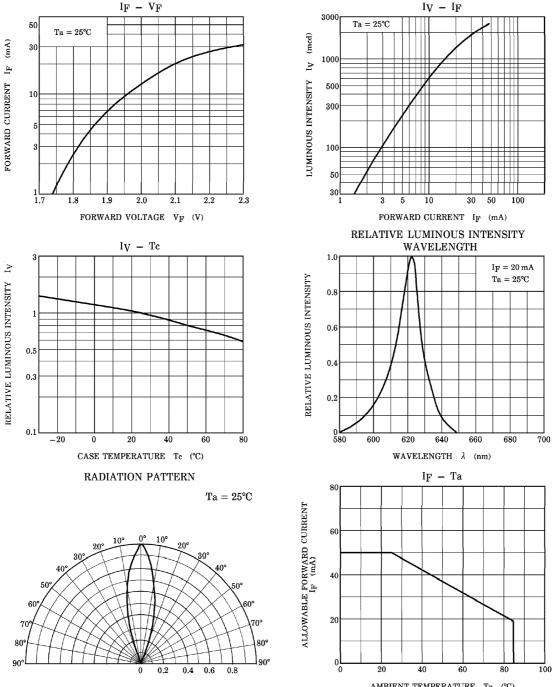


AMBIENT TEMPERATURE Ta (°C)

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### **TLSH156P Graphs**



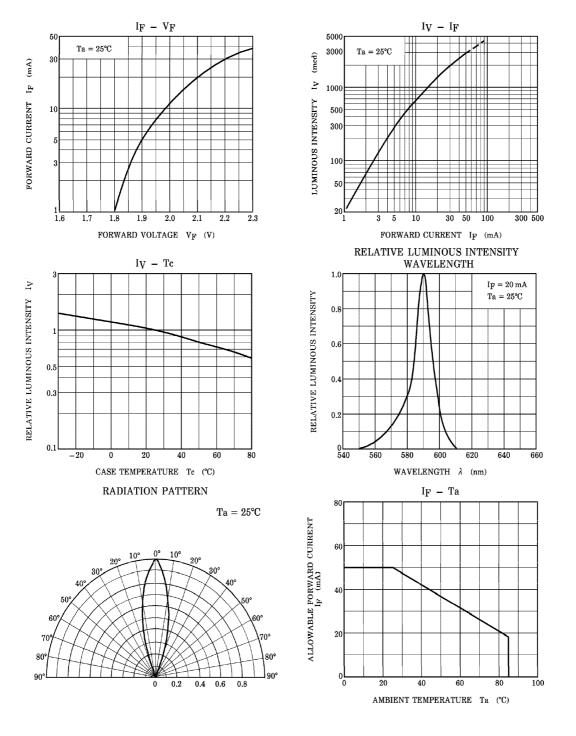
AMBIENT TEMPERATURE Ta (°C)

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### Toshiba TLxH156 Series LEDs

### **TLYH156P Graphs**



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West Coast Sales Office 950 South Coast Drive, Suite 265 Costa Mesa, California 92626 Toll Free: 800.984.5337 Fax: 714.850.9314

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