Toshiba TLxU1008A SMT LEDs

Features

1.6 x 0.8 x 0.6 mm (L x W x H)
InGaAIP Technology
Reflow Soldering is possible
Standard embossed taping 2 mm pitch : T05 (8000 pcs/reel)
0603 Surface Mount Package

Applications

Backlighting for battery–powered equipment Pilot light for compact equipment Low–power electronic equipment

Series Line-Up

Part Number	Color	Material
TLAU1008A	Amber	InGaAIP
TLGU1008A	Ultra Bright Yellow Green	InGaAIP
TLOU1008A	Ultra Bright Orange	InGaAIP
TLPGU1008A	Ultra Pure Green	InGaAIP
TLSU1008A	Ultra High Efficiency Red	InGaAlP
TLYU1008A	Ultra Bright Yellow	InGaAIP
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1 2 POLARITY • 4 •							
LED CHIP POSITION (0.2)							
700							
CATHODE INDEX							
TOLERANCE : ±0.1 mm							
Recommended soldering pattern							
0.80 0.70 0.8							

Part Number	Forward Current IF	Reverse Voltage V _R	Power Dissipation PD	Operating Temperature Topr	Storage Temperature Tstg
TLAU1008A	25	4	62.00	−30 ~ 85	−30 ~ 85
TLGU1008A	25	4	62.00	−30 ~ 85	−30 ~ 85
TLOU1008A	25	4	62.00	−30 ~ 85	−30 ~ 85
TLPGU1008A	25	4	62.00	−30 ~ 85	−30 ~ 85
TLSU1008A	25	4	60.00	−30 ~ 85	−30 ~ 85
TLYU1008A	25	4	62.00	−30 ~ 85	−30 ~ 85
Unit	mA	V	mW	°C	°C

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Electrical and Optical Characteristics (Ta=25°C)

Part Number	PWL nm λP	Material	View Angle	Luminous Intensity			Forward Voltage V _F			Rev Current IR			
			2θ 1/2	min.	typ.	max.	IF@	min.	typ.	max.	IF@	max.	VR@
TLAU1008A	596	InGaAIP	110°	8.50	30.00	-	20mA	-	2.10	2.50	20mA	50	4V
TLGU1008A	574	InGaAIP	110°	8.50	30.00	_	20mA	-	2.10	2.50	20mA	50	4V
TLOU1008A	612	InGaAIP	110°	27.20	78.00	-	20mA	-	2.10	2.50	20mA	50	4V
TLPGU1008A	562	InGaAIP	110°	1.53	6.00	_	20mA	-	2.10	2.50	20mA	50	4V
TLSU1008A	636	InGaAIP	110°	27.20	60.00	-	20mA	-	2.00	2.40	20mA	50	4V
TLYU1008A	590	InGaAIP	110°	8.50	30.00	-	20mA	-	2.20	2.50	20mA	50	4V
-	nm	-	deg		mcd		-		٧		-	μ Α	-

NOTICE:

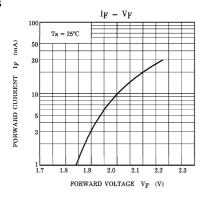
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- In developing your designs, please ensure that TOSHIBA products are used within specified operating ranges as set forth in the most recent TOSHIBA products specifications. Also, please keep in mind the precautions and conditions set forth in the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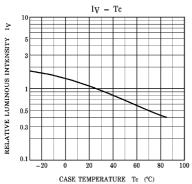


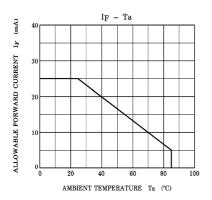
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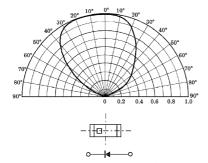
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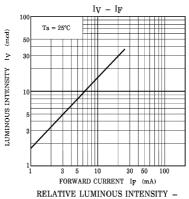
TLAU1008A Graphs

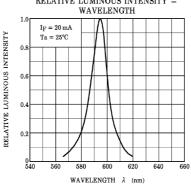


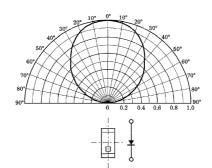










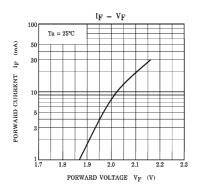


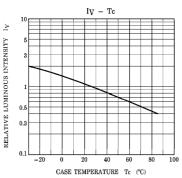


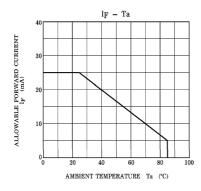


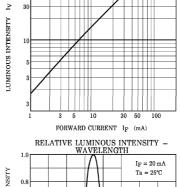
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TLGU1008A Graphs

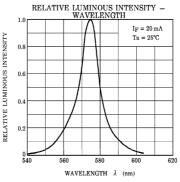


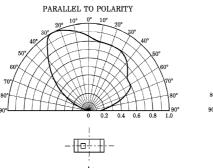


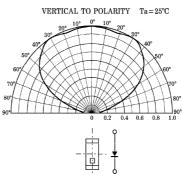




Ta = 25°C







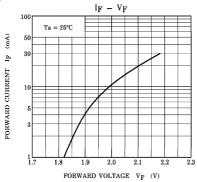


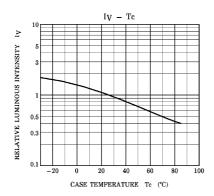
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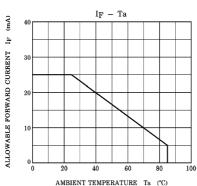
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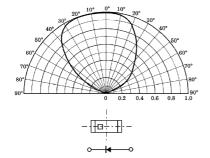
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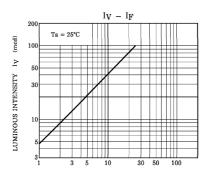
TLOU1008A Graphs

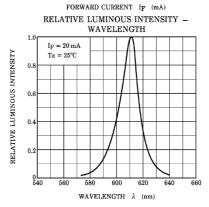


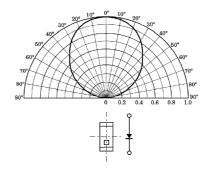










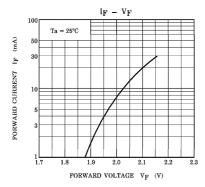


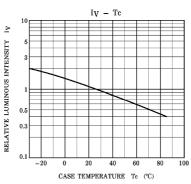


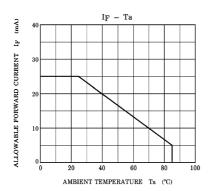


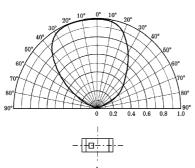
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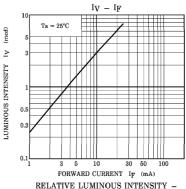
TLPGU1008A Graphs

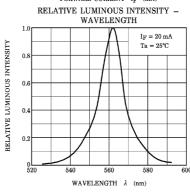


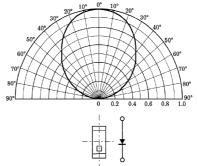












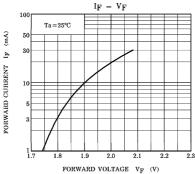


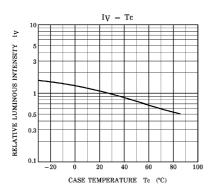
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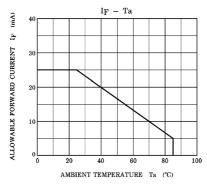
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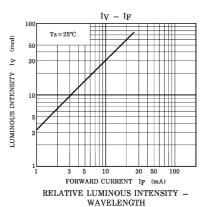
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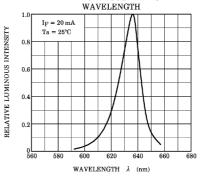
TLSU1008A Graphs

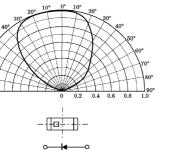


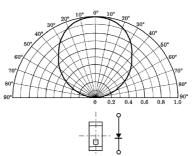












 $Ta = 25^{\circ}C$

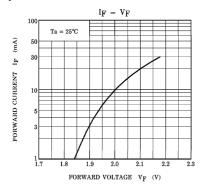
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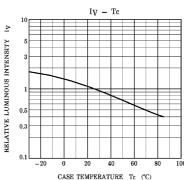


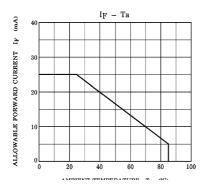
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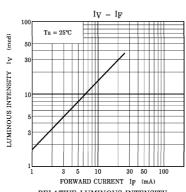
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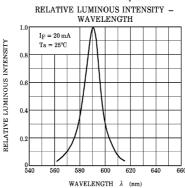
TLYU1008A Graphs



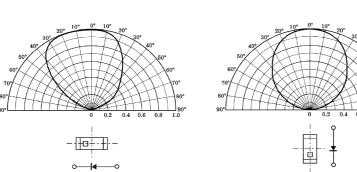








 $Ta = 25^{\circ}C$



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