Toshiba TLxU1008A SMT LEDs

Features

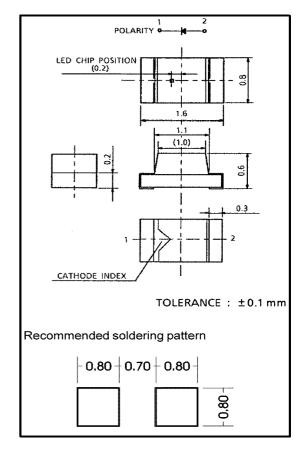
1.6 x 0.8 x 0.6 mm (L x W x H)
InGaAIP Technology
Reflow Soldering is possible
Standard embossed taping 2 mm pitch : T05 (8000 pcs/reel)
0603 Surface Mount Package

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	InGaAIP		
TLYU1008A	Ultra Bright Yellow	InGaAIP		



Part Number	Forward Current IF	Reverse Voltage V _R	Power Dissipation	Operating Temperature Topr	Storage Temperature T _{stg}
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:

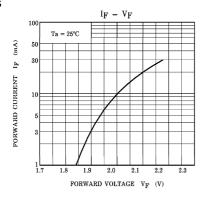
- TOSHIBA is continually working to improve the quality and reliability of its products. Nevertheless, semiconductor devices in general can malfunction or fail due to their inherent electrical sensitivity and vulnerability to physical stress. It is the responsibility of the buyer, when utilizing TOSHIBA 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.
- The information contained herein is presented only as a guide for the applications of our products. No responsibility is assumed by TOSHIBA CORPORATION for any infringements of intellectual property or other rights of the third parties which may result from its use. No license is granted by implication or otherwise under any intellectual property or other rights of TOSHIBA CORPORATION or others.
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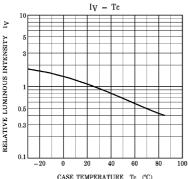


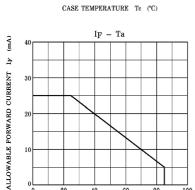
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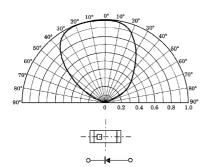
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TLAU1008A Graphs

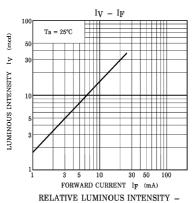


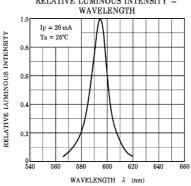


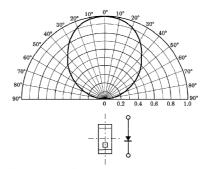


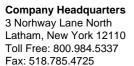


AMBIENT TEMPERATURE Ta (°C)







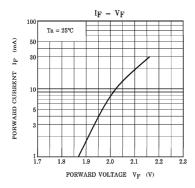


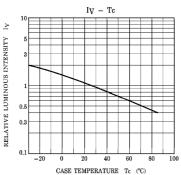


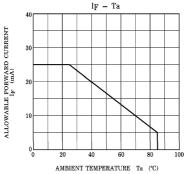
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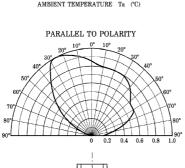
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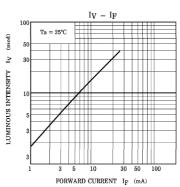
TLGU1008A Graphs

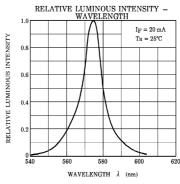


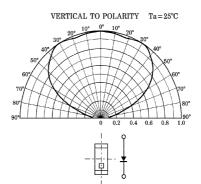














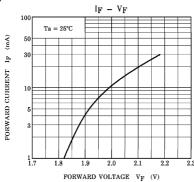
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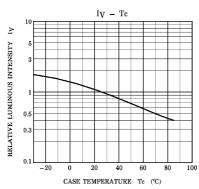
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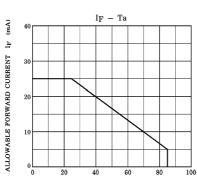
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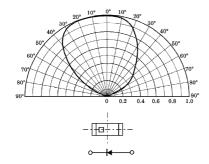
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TLOU1008A Graphs

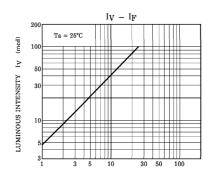


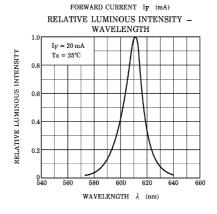


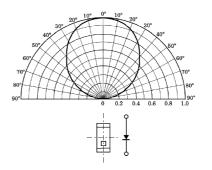


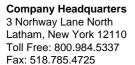


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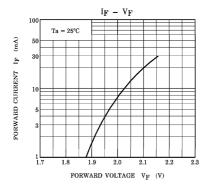


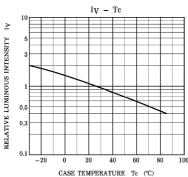
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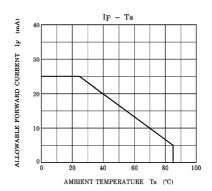
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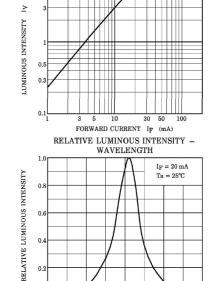
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TLPGU1008A Graphs



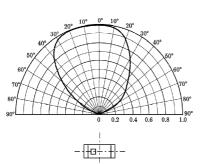


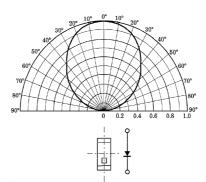




WAVELENGTH λ (nm)

(mcd)







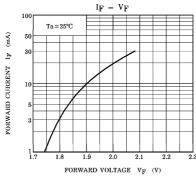
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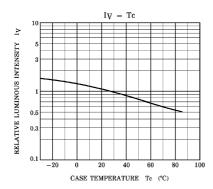
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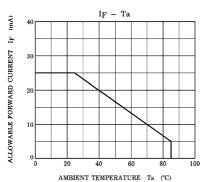
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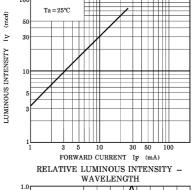
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TLSU1008A Graphs

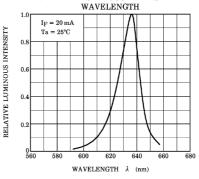


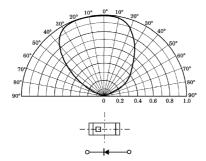


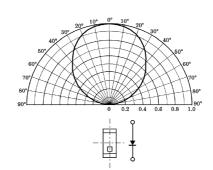




IV - IF







 $Ta = 25^{\circ}C$

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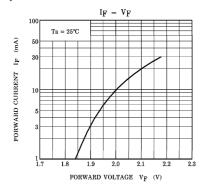


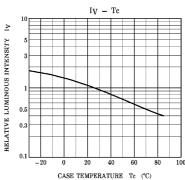
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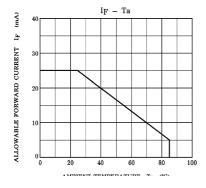
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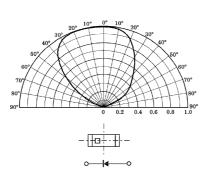
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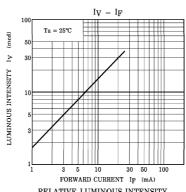
TLYU1008A Graphs

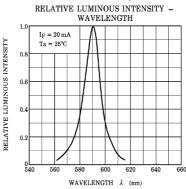


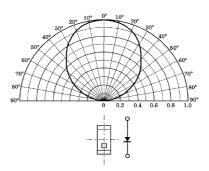












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