Toshiba TLxE1008A SMT LEDs

Features

1.6 x 0.8 x 0.6 mm (L x W x H)

Incorportes opaque diffusing resin. Good Light diffusion-ideal for backlighting InGaAIP Technology

Reflow soldering is possible

Standard embossed taping 4 mm pitch: T04 (4000 pcs/reel)

Applications

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

POLARITY 9 LED CHIP POSITION (0.2) 1.6 (1.0) 0.3 CATHODE INDEX TOLERANCE: ±0.1 mm Recommended soldering pattern 0.80 | 0.70 | 0.80 |

Series Line-Up

Part Number	Color	Material		
TLGE1008A	Ultra Bright Yellow Green	InGaAIP		
TLOE1008A	Ultra Bright Orange	InGaAIP		
TLPGE1008A	Ultra Pure Green	InGaAIP		
TLRE1008A	Ultra Bright Red	InGaAIP		
TLSE1008A	Ultra Bright High Efficency Red	InGaAIP		
TLYE1008A	Ultra Bright Yellow	InGaAIP		

Maximum Batings (Ta-250C)

Part Number	Forward Current IF	Reverse Voltage V _R	Power Dissipation	Operating Temperature Topr	Storage Temperature T _{stg}
TLGE1008A	25	4	60.00	−25 ~ +85	−30 ~ + 85
TLOE1008A	25	4	60.00	-25 ~ +85	−30 ~ + 85
TLPGE1008A	25	4	60.00	-25 ~ +85	−30 ~ + 85
TLRE1008A	25	4	60.00	-25 ~ +85	−30 ~ + 85
TLSE1008A	25	4	60.00	-25 ~ +85	−30 ~ + 85
TLYE1008A	25	4	60.00	−25 ~ +85	−30 ~ + 85
Unit	mA	V	mW	°C	°C

Company Headquarters

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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			
			2 0 1/2	min.	typ.	max.	IF@	min.	typ.	max.	IF@	max.	VR@
TLGE1008A	574	InGaAIP	110°	27.20	70.00	-	20mA	-	2.00	2.40	20mA	50	4V
TLOE1008A	612	InGaAIP	110°	47.60	150.00	-	20mA	-	2.00	2.40	20mA	50	4V
TLPGE1008A	562	InGaAIP	110°	4.76	18.00	-	20mA	-	2.10	2.40	20mA	50	4V
TLRE1008A	644	InGaAIP	110°	27.20	70.00	-	20mA	-	1.90	2.40	20mA	50	4V
TLSE1008A	623	InGaAIP	110°	47.60	135.00	-	20mA	-	1.90	2.40	20mA	50	4V
TLYE1008A	590	InGaAIP	110°	27.20	105.00	-	20mA	-	2.00	2.40	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.
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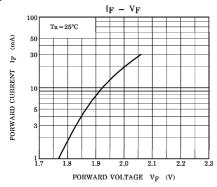
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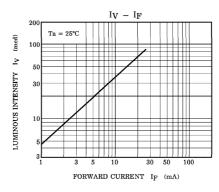


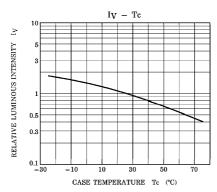
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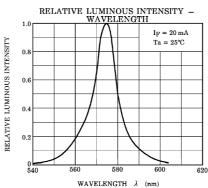
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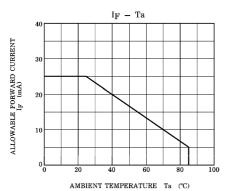
TLGE1008A Graphs

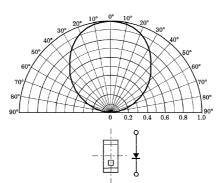


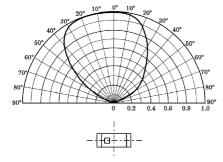












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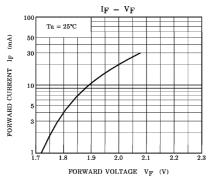
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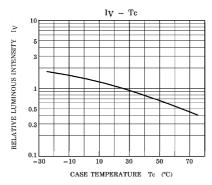
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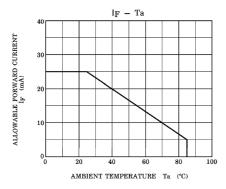
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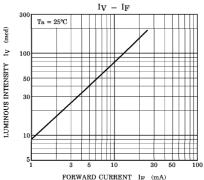
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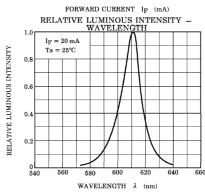
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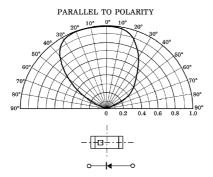


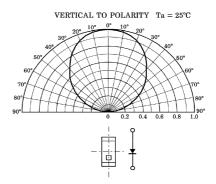












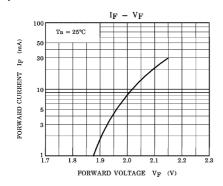
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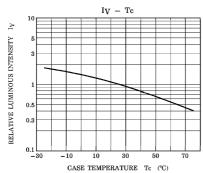


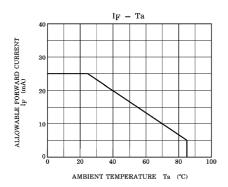
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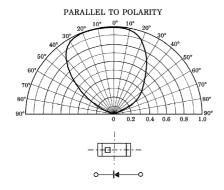
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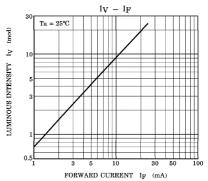
TLPGE1008A Graphs

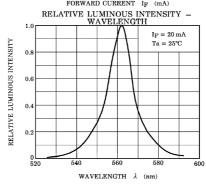


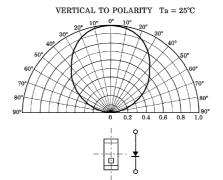












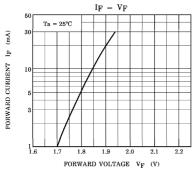
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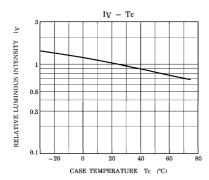


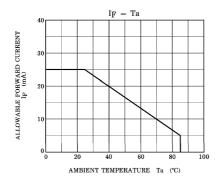
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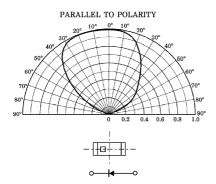
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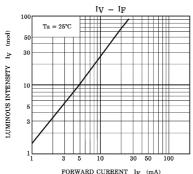
TLRE1008A Graphs

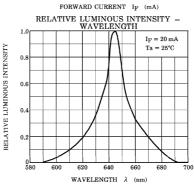


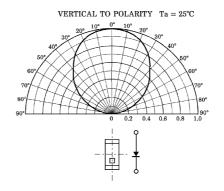












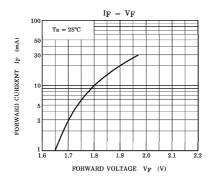
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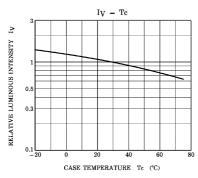


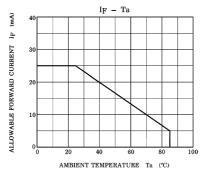
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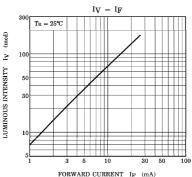
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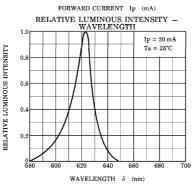
TLSE1008A Graphs

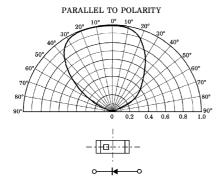


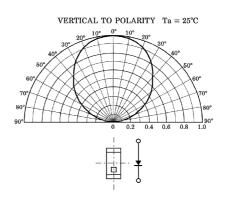












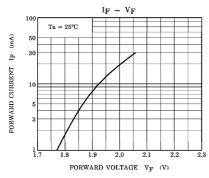
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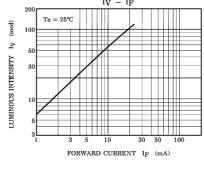


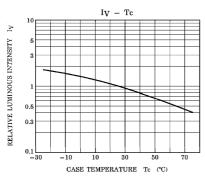
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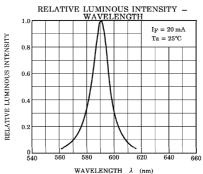
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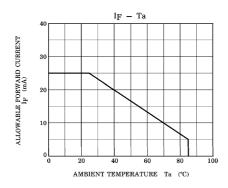
TLYE1008A Graphs

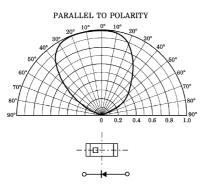


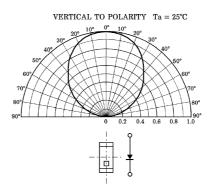












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