Toshiba TLxE1100 SMT LEDs

Features

3.2 (L) x 2.8 (W) x 1.9 (H) mm Size Flat-top Type InGaAIP Technology

Low Drive Current, High Intensity Light Emission

Standard embossed taping: T11 (2000 pcs/reel) 8 mm tape reel

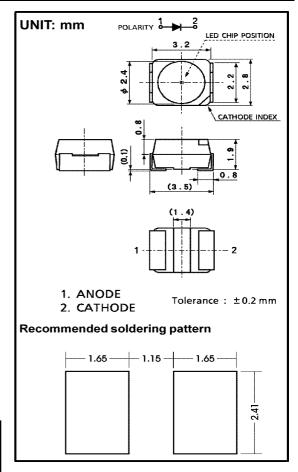
Applications

Automotive Use Message Signboard Backlight

Series Line-Up

Maximum Ratings (Ta-25°C)

Part Number	Color	Material
TLGE1100	Ultra Bright Yellow Green	InGaAIP
TLOE1100	Ultra Bright Orange	InGaAIP
TLPGE1100	Ultra Pure Green	InGaAIP
TLRE1100	Ultra Bright Red	InGaAIP
TLSE1100	Ultra Bright High Efficency Red	InGaAlP
TLYE1100	Ultra Bright Yellow	InGaAIP



Part Number	Forward Current IF	Reverse Voltage V _R	Power Dissipation	Operating Temperature Topr	Storage Temperature T _{stg}		
TLGE1100	50	4	120.00	-40 ~ 100	−40 ~ 100		
TLOE1100	50	4	120.00	-40 ~ 100	−40 ~ 100		
TLPGE1100	50	4	120.00	-40 ~ 100	−40 ~ 100		
TLRE1100	50	4	120.00	−40 ~ 100	−40 ~ 100		
TLSE1100	50	4	120.00	−40 ~ 100	−40 ~ 100		
TLYE1100	50	4	120.00	-40 ~ 100	−40 ~ 100		
Unit	mΔ	V	mW	°C	°C		

Company Headquarters 3 Norhway Lane North Latham, New York 12110 Toll Free: 800.984.5337

Fax: 518.785.4725



Fax: 714.850.9314



Toshiba TLxE1100 SMT LEDs

Electrical and Optical Characteristics (Ta=25°C)

Part Number	PWL nm λP	Material	View Angle	Luminous Intensity				Forward Voltage VF				Rev Current	
			2θ1/2	min.	typ.	max.	IF@	min.	typ.	max.	IF@	max.	VR@
TLGE1100	574	InGaAlP	120°	47.60	100.00	-	20mA	-	2.00	2.40	20mA	50	4V
TLOE1100	612	InGaAIP	120°	47.60	180.00	-	20mA	-	2.00	2.40	20mA	50	4V
TLPGE1100	562	InGaAlP	120°	8.50	25.00	-	20mA	_	2.10	2.40	20mA	50	4V
TLRE1100	644	InGaAlP	120°	47.60	100.00	-	20mA	_	1.90	2.40	20mA	50	4V
TLSE1100	623	InGaAlP	120°	47.60	180.00	-	20mA	_	1.90	2.40	20mA	50	4V
TLYE1100	590	InGaAlP	120°	47.60	150.00	_	20mA	-	2.00	2.40	20mA	50	4V
-	nm	-	deg		mcd		-		٧		-	μ A	-

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.
- The information contained herein is subject to change without notice.

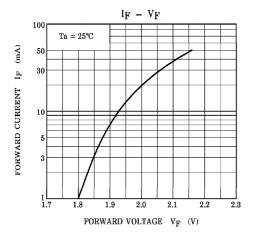


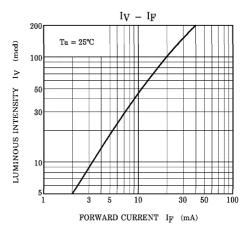
West Coast Sales Office 950 South Coast Drive, Suite 265 Costa Mesa, California 92626

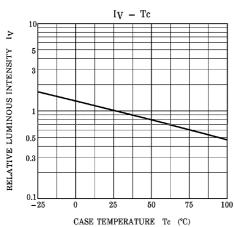
Toll Free: 800.984.5337 Fax: 714.850.9314

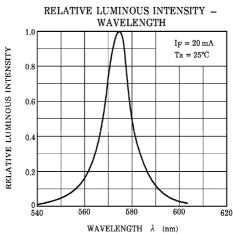
Toshiba TLxE1100 SMT LEDs

TLGE1100 Graphs



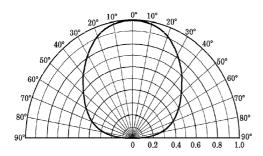


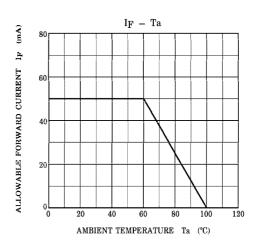




RADIATION PATTERN

 $Ta = 25^{\circ}C$



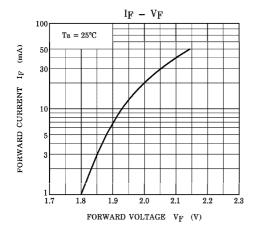


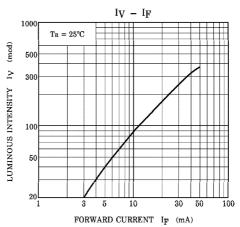
Company Headquarters 3 Norhway Lane North Latham, New York 12110 Toll Free: 800.984.5337 Fax: 518.785.4725

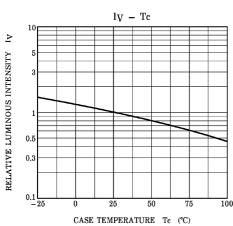


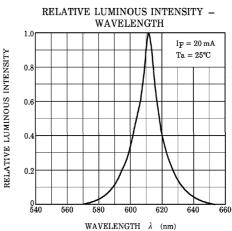
Toshiba TLxE1100 SMT LEDs

TLOE1100 Graphs



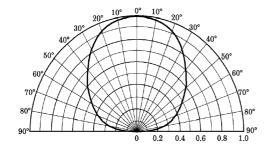


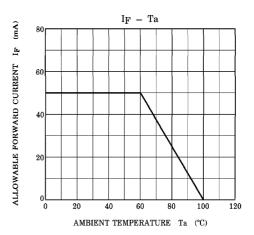












Company Headquarters 3 Norhway Lane North Latham, New York 12110 Toll Free: 800.984.5337 Fax: 518.785.4725

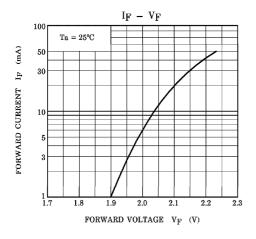


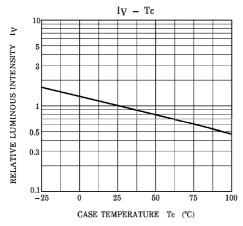
West Coast Sales Office 950 South Coast Drive, Suite 265 Costa Mesa, California 92626 Toll Free: 800.984.5337

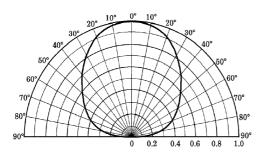
Fax: 714.850.9314

Toshiba TLxE1100 SMT LEDs

TLPGE1100 Graphs

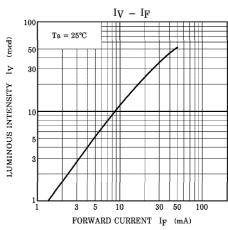


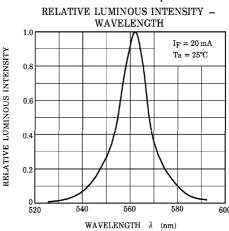


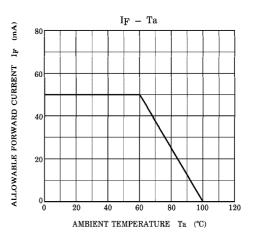


RADIATION PATTERN

 $Ta = 25^{\circ}C$

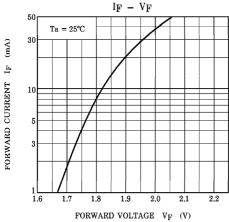


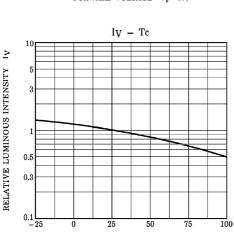




Toshiba TLxE1100 SMT LEDs

TLRE1100 Graphs

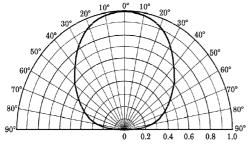


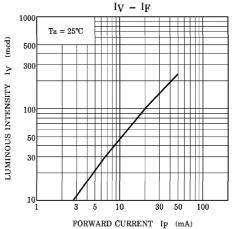


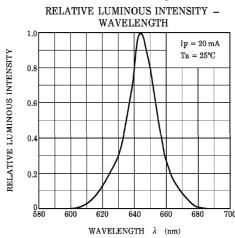


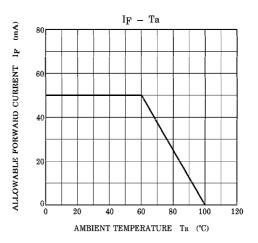
CASE TEMPERATURE Te (°C)

RADIATION PATTERN









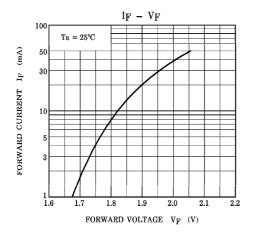
Company Headquarters 3 Norhway Lane North Latham, New York 12110 Toll Free: 800.984.5337 Fax: 518.785.4725

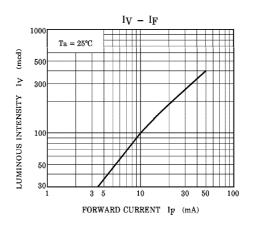


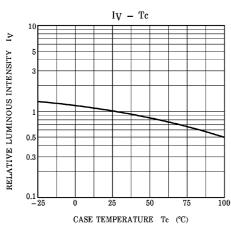
West Coast Sales Office 950 South Coast Drive, Suite 265 Costa Mesa, California 92626 Toll Free: 800.984.5337 Fax: 714.850.9314

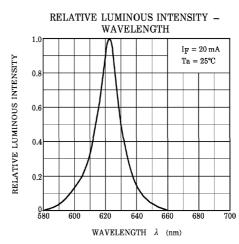
Toshiba TLxE1100 SMT LEDs

TLSE1100 Graphs



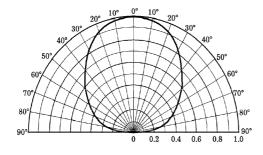


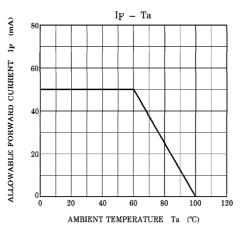












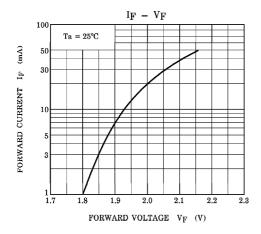
Company Headquarters 3 Norhway Lane North Latham, New York 12110 Toll Free: 800.984.5337 Fax: 518.785.4725

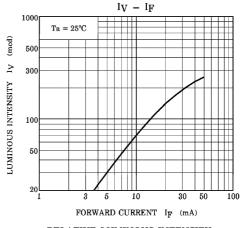


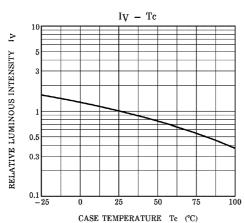
West Coast Sales Office 950 South Coast Drive, Suite 265 Costa Mesa, California 92626 Toll Free: 800.984.5337 Fax: 714.850.9314

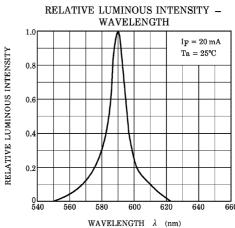
Toshiba TLxE1100 SMT LEDs

TLYE1100 Graphs



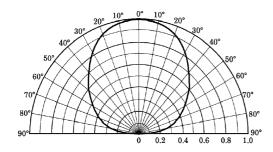


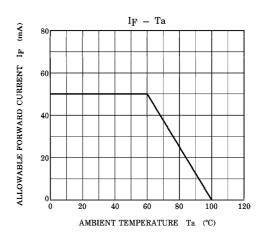




RADIATION PATTERN

 $Ta = 25^{\circ}C$





Company Headquarters 3 Norhway Lane North Latham, New York 12110 Toll Free: 800.984.5337 Fax: 518.785.4725



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