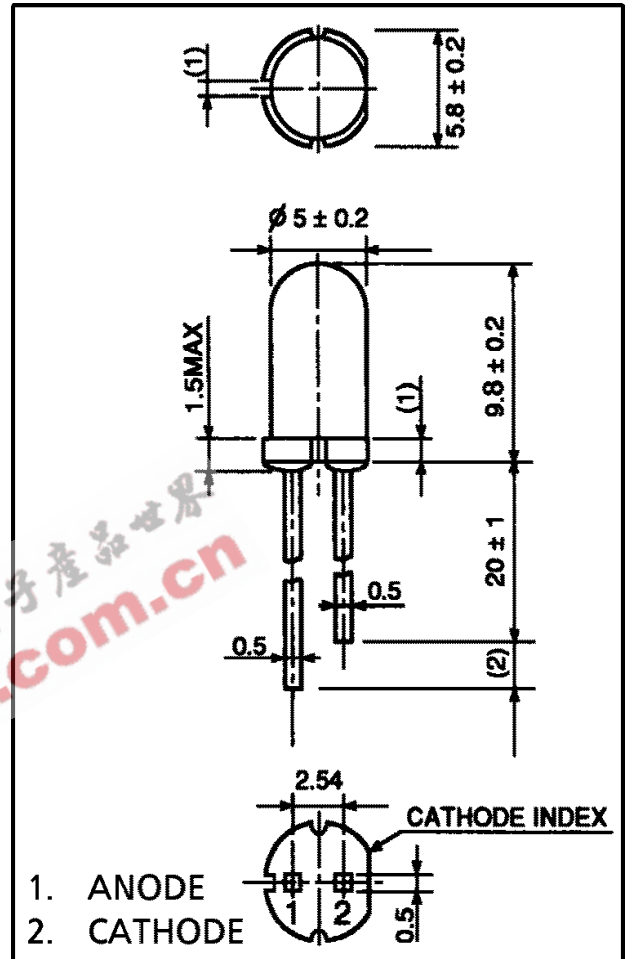


Features

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

Applications

Suitable for Outdoor Message Signboard, Safety equipment, etc.



Series Line-Up

Part Number	Color	Material
TLGE183P	Ultra Bright Yellow Green	InGaAlP
TLPGE183P	Ultra Pure Green	InGaAlP

Maximum Ratings (Ta=25°C)

Part Number	Forward Current I _F	Reverse Voltage V _R	Power Dissipation P _D	Operating Temperature T _{opr}	Storage Temperature T _{stg}
TLGE183P	50	4	140.00	-30 ~ 85	-40 ~ 120
TLPGE183P	50	4	140.00	-30 ~ 85	-40 ~ 120
Unit	mA	V	mW	°C	°C

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 Fax: 714.850.9314

Electrical and Optical Characteristics (Ta=25°C)

Part Number	PWL nm λ_P	Material	View Angle $2\theta_{1/2}$	Luminous Intensity I_v				Forward Voltage V_F				Rev Current I_R	
				min.	typ.	max.	IF@	min.	typ.	max.	IF@	max.	VR@
TLGE183P	574	InGaAlP	7°	1530.00	5000.00	–	20mA	–	2.27	2.80	20mA	50	4V
TLPGE183P	562	InGaAlP	7°	476.00	2000.00	–	20mA	–	2.27	2.80	20mA	50	4V
–	nm	–	deg	mcd				–	V		–	μA	–

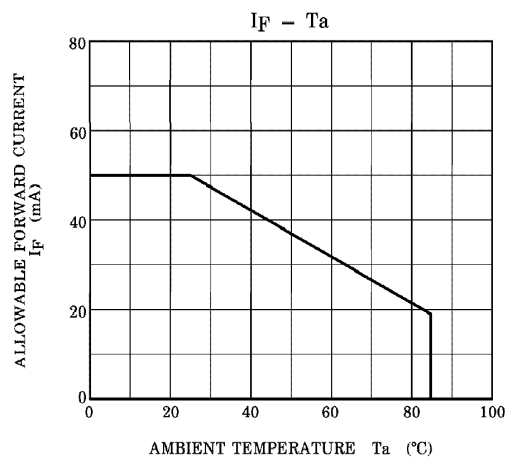
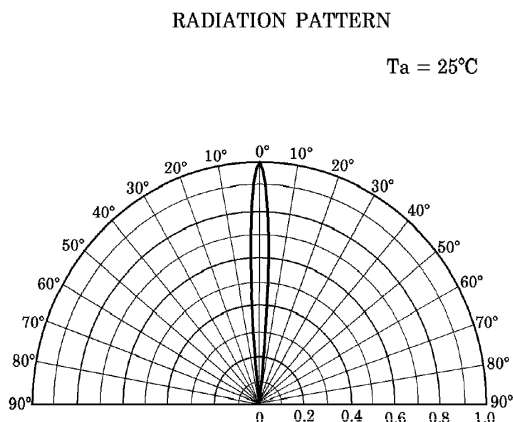
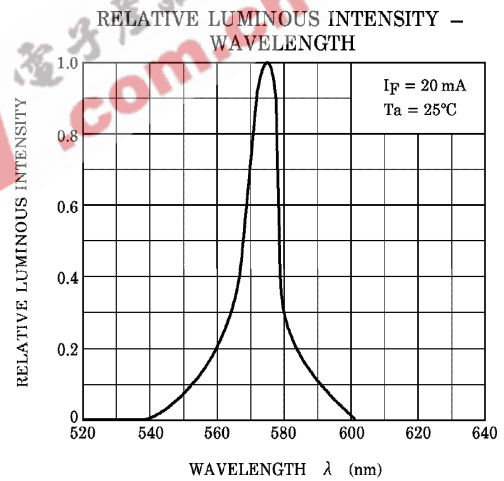
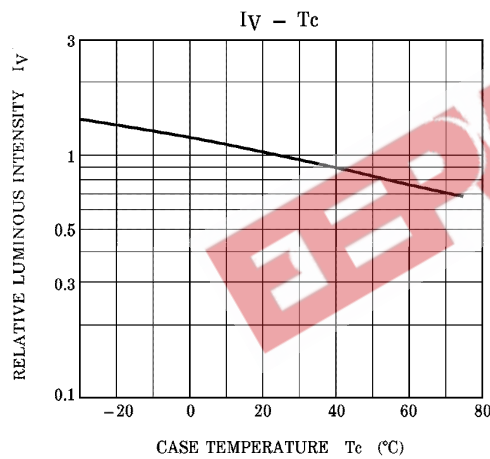
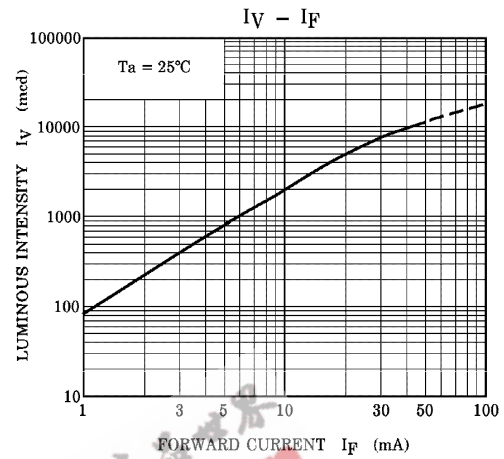
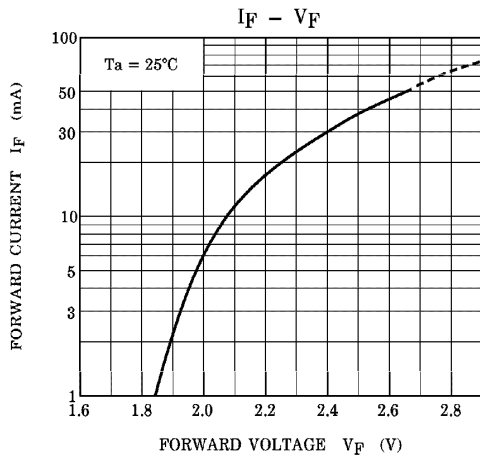
Precautions

- 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:

- 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.
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TLGE183P Graphs



TLPGE183P Graphs

