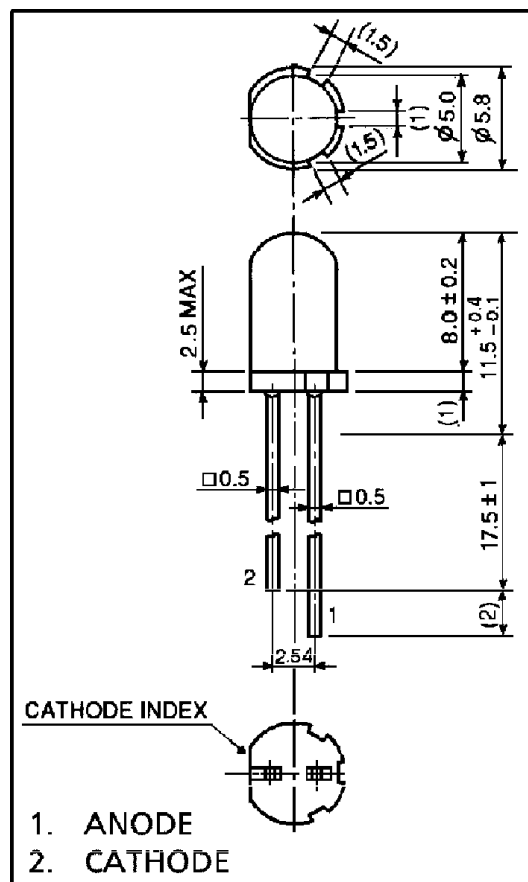


Features

5mm Package
InGaAlP Technology
All Plastic Mold Type
Transparent Lens
High Intensity Light Emission
Excellent Low Current Light Output

Applications

Outdoor Message Signs
Safety Equipment
Backlights



Series Line-Up

Part Number	Color	Material
TLFGE18TP	Ultra Green	InGaAlP
TLGE18TP	Ultra Bright Yellow-Green	InGaAlP
TLPGE18TP	Super Green	InGaAlP
TLPYE18TP	Ultra Pure Yellow	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}
TLFGE18TP	50	4.00	120.00	-40 ~ 100	-40 ~ 120
TLGE18TP	50	4.00	120.00	-40 ~ 100	-40 ~ 120
TLPGE18TP	50	4.00	120.00	-40 ~ 100	-40 ~ 120
TLPYE18TP	50	4.00	120.00	-40 ~ 100	-40 ~ 120
Unit	mA	V	mW	°C	°C

Company Headquarters
120 Broadway
Menands, New York 12204
Toll Free: 800.984.5337
Fax: 518.432.7454



Web: www.marktechopt.com | Email: info@marktechopt.com

West Coast Sales Office
950 South Coast Drive, Suite 265
Costa Mesa, California 92626
Toll Free: 800.984.5337
Fax: 714.850.9314
www.DataSheet4U.com

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@
TLFGE18TP	568	InGaAlP	30°	85.00	300.00	–	20mA	–	2.00	2.40	20mA	50	4V
TLGE18TP	574	InGaAlP	30°	272.00	700.00	–	20mA	–	2.00	2.40	20mA	50	4V
TLPGE18TP	562	InGaAlP	30°	85.00	200.00	–	20mA	–	2.10	2.40	20mA	50	4V
TLPYE18TP	583	InGaAlP	30°	272.00	750.00	–	20mA	–	2.00	2.40	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.
- 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.
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Company Headquarters
120 Broadway
Menands, New York 12204
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Fax: 518.432.7454



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Toll Free: 800.984.5337
Fax: 714.850.9314

TLFGE18TP Graphs

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Company Headquarters
120 Broadway
Menands, New York 12204
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Costa Mesa, California 92626
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Toll Free: 800.984.5337
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West Coast Sales Office
950 South Coast Drive, Suite 265
Costa Mesa, California 92626
Toll Free: 800.984.5337
Fax: 714.850.9314

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TLPGE18TP Graphs

www.DataSheet4U.com

Company Headquarters
120 Broadway
Menands, New York 12204
Toll Free: 800.984.5337
Fax: 518.432.7454



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

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TLPYE18TP Graphs

www.DataSheet4U.com

Company Headquarters
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Menands, New York 12204
Toll Free: 800.984.5337
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