TOSHIBA WWW.DZ

Surface Mount LED

TLOE1005B

Features

3.2 (L) x 2.4 (W) x 2.4 (H) mm
2 mm lens top type
InGaAIP LED
Reflow soldering is possible
Standard embossed taping 4 mm pitch : T03 (1000 pcs/reel)

Applications

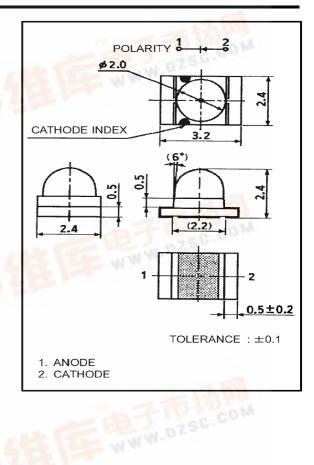
High–output backlighting source Battery–powered equipment Message boards Portable devices Computer peripherals

Maximum Ratings (Ta=25°C)

Maximum Ratings (Ta=25 C)								
Characteristic	Symbol	Max.	Unit					
Forward Current	lF	25	mA					
Reverse Voltage	VR	4.00	V					
Power Dissipation	PD	60.00	mW					
Operating Temperature	Topr	-40 ~ 85	°C					
Storage Temperature	Tstg	-40 ~ 100	°C					
Soldering Temperature	Tsol	260	°C					
Soldering Time	- "	for 3 sec. max	- 0					

Opto-Electrical Characteristics (Ta=25°C)

Characteristic	Symbol	Test Condition	Min	Тур	Max	Unit
Forward Voltage	VF	Ir=20mA	_	2.00	2.40	٧
Reverse Current	IR	VR=4V	-	_	50	μΑ
Luminous Intensity	lv	I=20mA	476.00	1500.00	-	mcd
Viewing Angle	2θ ^{1/2}	-	-	45°	-	deg.
Peak Wavelength	λр	I=20mA	-	612	-	nm
Dominant Wavelength	λd	I=20mA	-	605	-	nm
Spectral Line Half Width	Δλ	I _F =20mA	11/2	15	-	nm



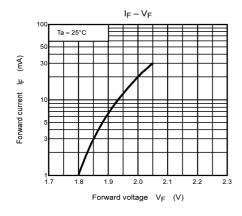


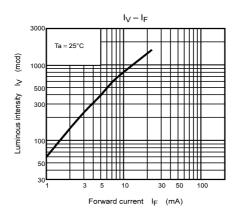


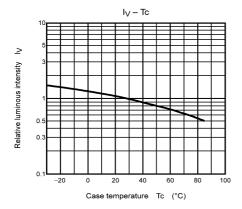
Surface Mount LED

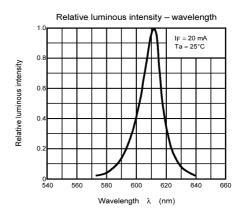
TOSHIBA

TLOE1005B Graphs



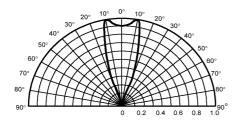


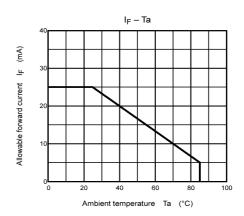




Radiation pattern

 $Ta=25^{\circ}C$





Company Headquarters 3 Northway Lane North Latham, New York 12110



California Sales Office:



Surface Mount LED

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.





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

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