TOSHIBA

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

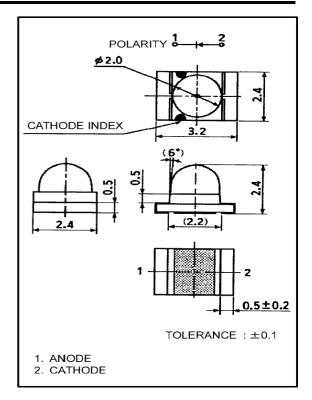
High-output backlighting source Battery-powered equipment Message boards Portable devices Computer peripherals

Maximum Ratings (Ta=25°C)

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	-	

Opto-Electrical Characteristics (Ta=25°C)

Characteristic	Symbol	Test Condition	Min	Тур	Max	Unit
Forward Voltage	VF	I=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	$2\theta^{1/2}$	-	_	45°	-	deg.
Peak Wavelength	λр	I=20mA	_	612	-	nm
Dominant Wavelength	λd	I=20mA	_	605	-	nm
Spectral Line Half Width	Δλ	I=20mA	_	15	-	nm



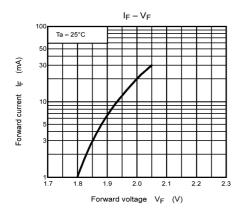
3 Northway Lane North Latham, New York 12110 Toll Free: 800.984.5337 Fax: 518.785.4725

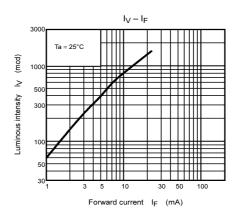


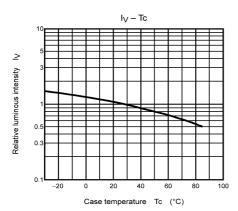
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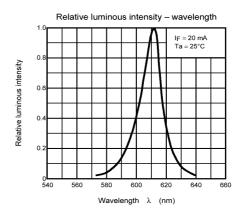
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TLOE1005B Graphs



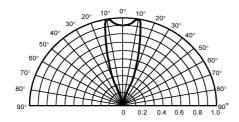


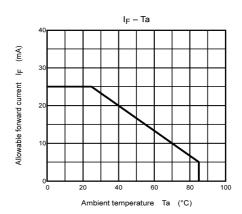




Radiation pattern

 $Ta = 25^{\circ}C$





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- 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..
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