

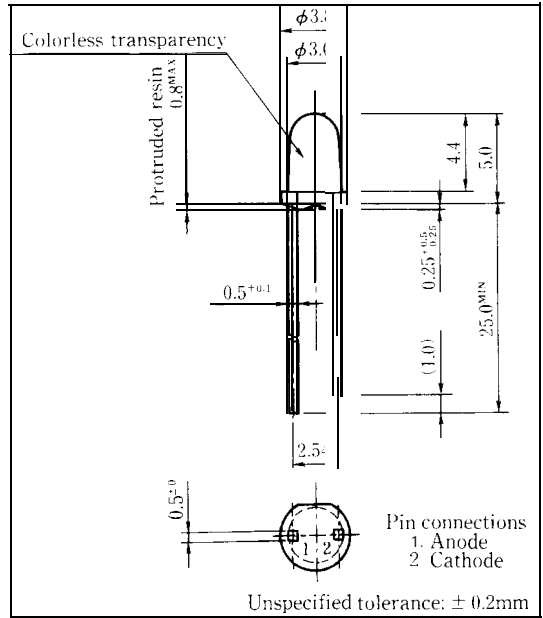
GL3BX44

φ 3mm(T-1) Cylinder Type LED Lamp

■ Model No.
GL3BX44 Blue

SiC

■ Outline Dimensions (Unit: mm)



■ Features

1. φ 3mm(T-1) all resin mold
2. Radiation color : Blue
3. Colorless transparency lens type

■ Absolute Maximum Ratings

(Ta=25°C)

Parameter	Symbol	GL3BX44				Unit
Power dissipation	P	200				mW
Continuous forward current	I _F	50				mA
*1 Peak forward current	I _{FM}	100				mA
Derating factor	DC	0.67				mA/°C
	Pulse	—	1,33			mA/°C
Reverse' voltage	V _R	5				v
operating temperature	T _{opr}	25 to +85				°C
Storage temperature	T _{stg}	-25 to +100				°C
*2 Soldering temperature	T _{sol}	260(within 5 seconds)				°C

※1 Duty ratio = 1/10, Pulse width = 0.1ms

※2 At the position of 1.6 mm from the bottom face of resin package

SHARP

GL3BX44 (Blue)

■ Electro-optical Characteristics

(Ta = 25°C)

Parameter	Symbol	Model No.	Conditions	MIN.	TYP.	MAX	Unit
Forward voltage	V_F	GL3BX44	$I_F = 20\text{mA}$		3.1	4.0	V
*3 Luminous intensity	I_V	GL3BX11	$I_F = 20\text{mA}$	1.0	4.0	—	mcd
Peak emission wavelength	λ_p	GL3BX44	$I_F = 20\text{mA}$		470	—	nm
Spectrum radiation bandwidth	$\Delta\lambda$	GL3BX44	$I_F = 20\text{mA}$	—	70	—	nm
Reverse current	I_R	GL3BX44	$V_R = 4\text{V}$			50	μA
Terminal capacitance	C_t	GL3BX44	$V = 0\text{V}$ $f = 1\text{MHz}$	—	50	—	pF
Response frequency	f_c				—	—	MHz

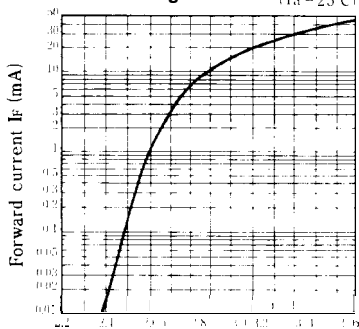
*3 Tolerance: $\pm 15\%$



■ Characteristics Diagrams

Forward Current vs. Forward Voltage

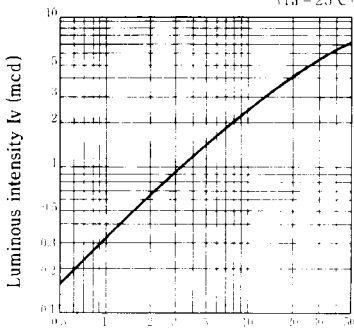
(Ta = 25°C)



Forward voltage V_F (V)

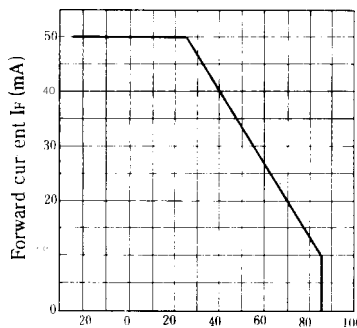
Luminous Intensity vs. Forward Current

(Ta = 25°C)



Forward current I_F (mA)

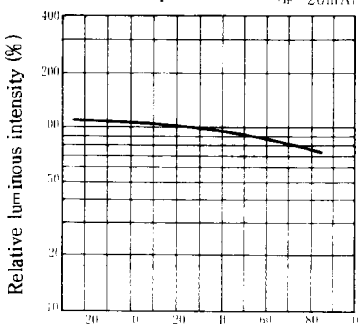
Forward Current Derating Curve



Ambient temperature T_a (°C)

Relative Luminous Intensity vs. Ambient Temperature

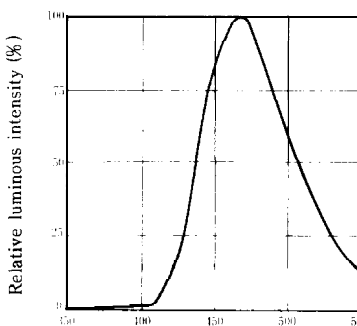
($I_F = 20\text{mA}$)



Ambient temperature T_a (°C)

Spectrum Distribution

(Ta = 25°C)



Wavelength λ (nm)

Radiation Diagram

(Ta = 25°C)

