GL5BX44

ϕ 5mm (T-1 ¾) Cylinder Type LED Lamp

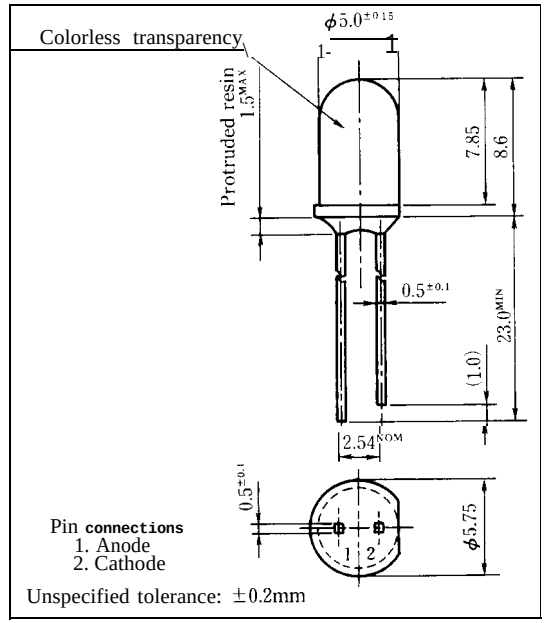
■ Model No.

GL5BX44 Blue SiC

■ Features

1. # 5mm (T-1 ¾) all resin mold
2. Radiation color : Blue
3. Colorless transparency lens type

■ Outline Dimensions (Unit: mm)



■ Absolute Maximum Ratings (Ta=25℃)

Parameter		Symbol	GL5BX44					Unit
Power dissipation		P	200					mW
Continuous forward current		IF	50					mA
※1 Peak forward current		IFM	100					mA
Derating factor	DC	—	0.67					mA/℃
	Pulse	—	1.33					mA/℃
Reverse voltage		VR	5					V
Operating temperature		Topr	−25 to +85					℃
Storage temperature		Tstg	−25 to +100					℃
※2 Soldering temperature		Tsol	260 (within 5 seconds)					℃

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

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

GL5BX44 (Blue)

■ Electro-optical Characteristics

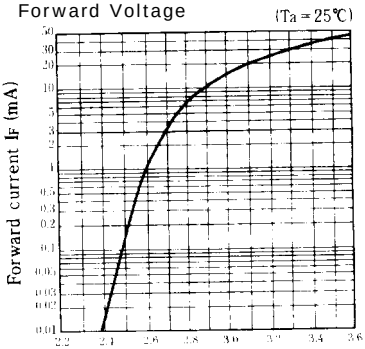
(Ta = 25℃)

Parameter	Symbol	Model No.	Conditions	MIN.	TYP.	MAX.	Unit
Forward voltage	V_F	GL5BX44	I_F = 20mA	–	3.1	4.0	V
※3 Luminous intensity	I_V	GL5BX44	I_F = 20mA	3.0	**8.0**	–	mcd
Peak emission wavelength	λ_p	GL5BX44	I_F = 20mA	–	470	–	nm
Spectrum radiation bandwidth	$\Delta\lambda$	GL5BX44	I_F = 20mA	–	**70**	–	nm
Reverse current	I_R	GL5BX44	V_R = 4V		–	50	μA
Terminal capacitance	C_t	GL5BX44	V=OV f=1 MHz	-	50	-	pF
Response frequency	f_c	–		–	–	–	MHz

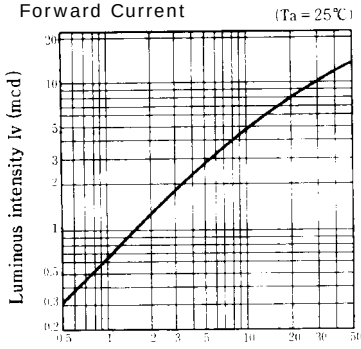
※3 Tolerance: ±15%

■ Characteristics Diagrams

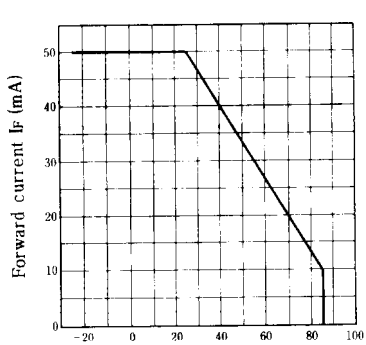
Forward Current **vs.** Forward Voltage



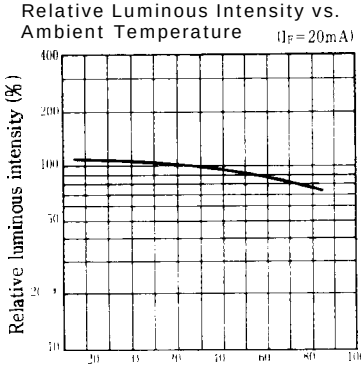
Luminous Intensity **vs.** Forward Current



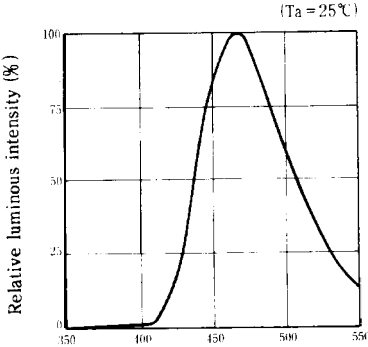
Forward Current **Derating** Curve



Relative Luminous Intensity vs. Ambient Temperature



Spectrum Distribution



Radiation Diagram