

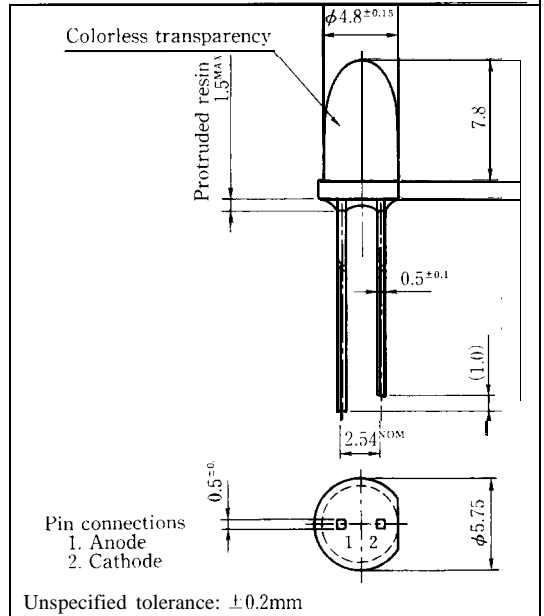
GL5BX43

φ 5mm (T-1 3/4) Cylinder Type LED Lamp

■ **Model No.**
GL5BX43 Blue

SiC

■ **Outline Dimensions** (Unit: mm)



■ **Features**

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

■ **Absolute Maximum Ratings**

(Ta = 25°C)

Parameter	Symbol	GL5BX43				Unit
Power dissipation		P 12001				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

GL5BX43 (Blue)

Electro-optical Characteristics

(Ta = 25°C)

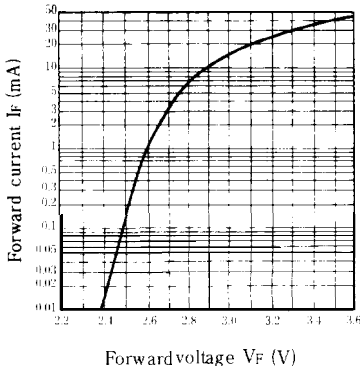
Parameter	Symbol	Model No.	Conditions	MIN.	TYP.	MAX.	Unit
Forward voltage	V _F	GL5BX43	I _F = 20mA	—	3.1	4.0	V
※3 Luminous intensity	IV	GL5BX43	I _F = 20mA	6.0	16	—	mcd
Peak emission wavelength	λ _p	GL5BX43	I _F = 20mA	—	470	—	nm
Spectrum radiation bandwidth	Δλ	GL5BX43	I _F = 20mA	—	70	—	nm
Reverse current	I _R	GL5BX43	V _R = 4V	—	—	50	μA
Terminal capacitance	C _t	GL5BX43	V = 0V f = 1MHz	—	50	—	pF
Response frequency	f _c	—	—	—	—	—	MHz

※3 Tolerance: ±15%

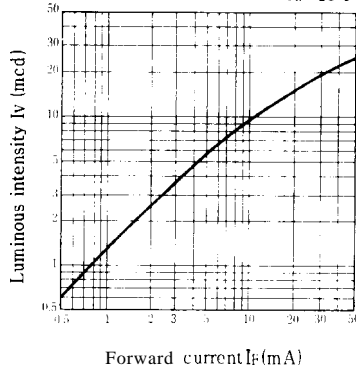
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Characteristics Diagrams

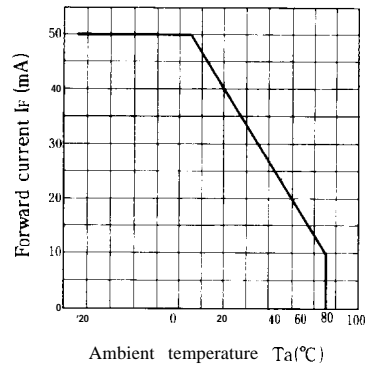
Forward Current vs. Forward Voltage (Ta = 25°C)



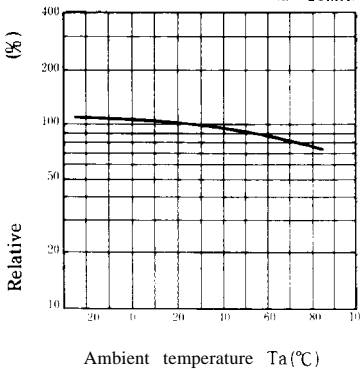
Luminous Intensity vs. Forward Current (Ta = 25°C)



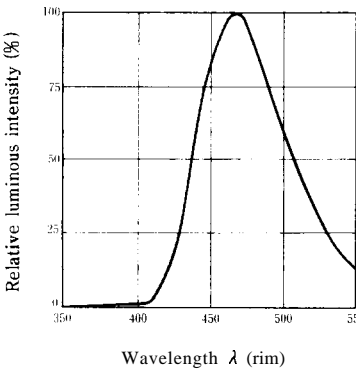
Forward Current Derating Curve



Relative Luminous Intensity vs. Ambient Temperature (If = 20mA)



Spectrum Distribution (Ta = 25°C)



Radiation Diagram (Ta = 25°C)

