

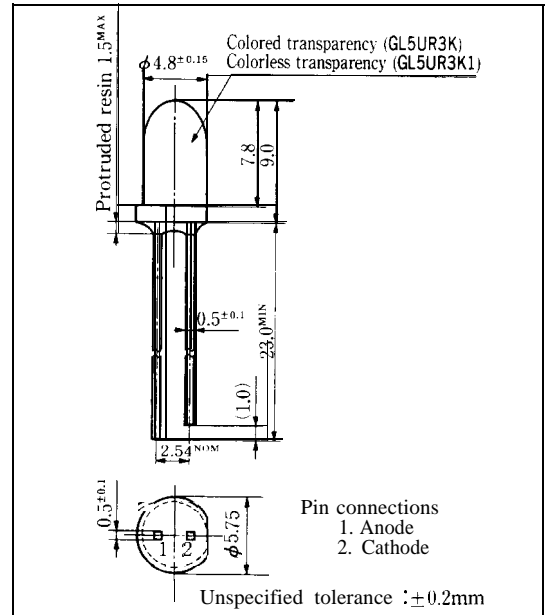
GL5uR3K/ GL5UR3K1

φ5mm(T-1 X) Cylinder Type LED Lamps

■ Model No.

GL5UR3K Red (Super-luminosity) GaAlAs/GaAlAs
GL5UR3K1 Red (Super-luminosity) GaAlAs/GaAlAs

■ Outline Dimensions (Unit: mm)



■ Features

1. $\phi 5\text{mm}(T-1\frac{3}{4})$ all resin mold
2. Red colored transparency lens type (GL5UR3K)
3. Colorless transparency lens type (GL5UR3K1)

■ Absolute Maximum Ratings

(Ta=25°C)

Parameter	Symbol	GL5UR3K				Unit
		GL5UR3K1				
Power dissipation	P	75				mW
Continuous forward current	I _F	30				mA
※1 Peak forward current	I _{FM}	50				mA
Derating factor	DC	—	0.40			mA/°C
	Pulse	—	0.67			mA/°C
Reverse voltage	V _R	4				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 1.6mm from the bottom face of resin package

GL5UR3K (Red) /GL5UR3KI (Red)

■ **Electro-optical** Characteristics

(Ta = 25°C)

Parameter	Symbol	Model No.	Conditions	MIN.	TYP.	MAX.	Unit
Forward voltage	VF	GL5UR3K	IF = 20mA	—	1.85	2.50	V
		GL5UR3KI	IF = 20mA	—	1.85	2.50	
※3 Luminous intensity	IV	GL5UR3K	IF = 20mA	2400	3000	—	mcd
		GL5UR3KI	IF = 20mA	2400	3000	—	
Peak emission wavelength	λp	GL5UR3K	IF = 20mA	—	660	—	nm
		GL5UR3KI	IF = 20mA	—	660	—	
Spectrum radiation bandwidth	Δλ	GL5UR3K	IF = 20mA	—	20	—	nm
		GL5UR3KI	IF = 20mA	—	20	—	
Reverse current	IR	GL5UR3K	VR = 3V	—	—	100	μA
		GL5UR3KI	VR = 3V	—	—	100	
Terminal capacitance	c!	GL5UR3K	V = 0V f = 1 MHz	—	25	—	pF
		GL5UR3KI	V = 0V f = 1 MHz	—	25	—	
Response frequency	fc	GL5UR3K	—	—	8	—	MHz
		GL5UR3KI	—	—	8	—	

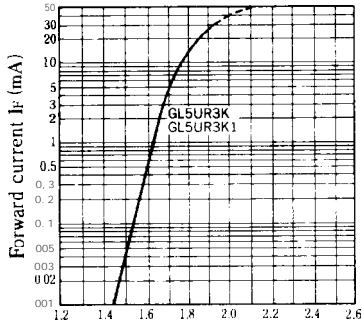
X3 Tolerance: ±30%

3

■ **Characteristics Diagrams**

Forward Current vs. Forward Voltage

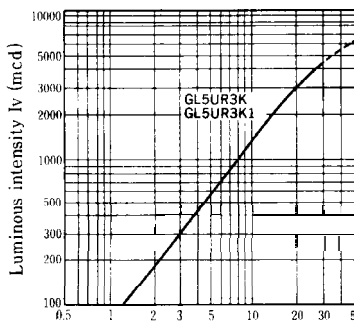
(Ta = 25°C)



Forward voltage VF (V)

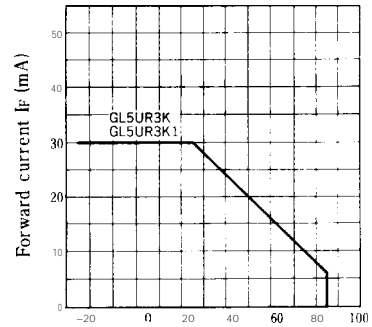
Luminous Intensity vs. Forward Current

(Ta = 25°C)



Forward current If (mA)

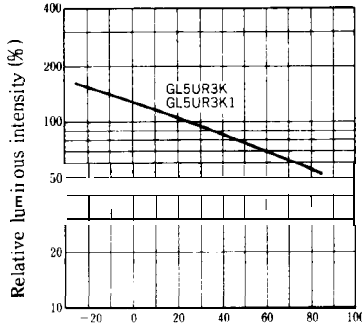
Forward Current Derating Curve



Ambient temperature Ta (°C)

Relative Luminous Intensity vs. Ambient Temperature

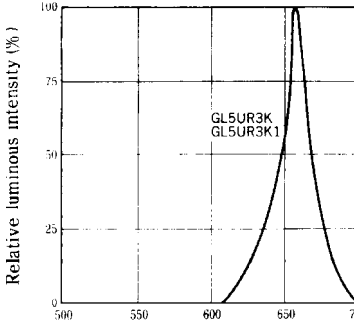
(If = 20mA)



Ambient temperature Ta (°C)

Spectrum Distribution

(Ta = 25°C)



Wavelength λ (nm)

Radiation Diagram

(Ta = 25°C)

