

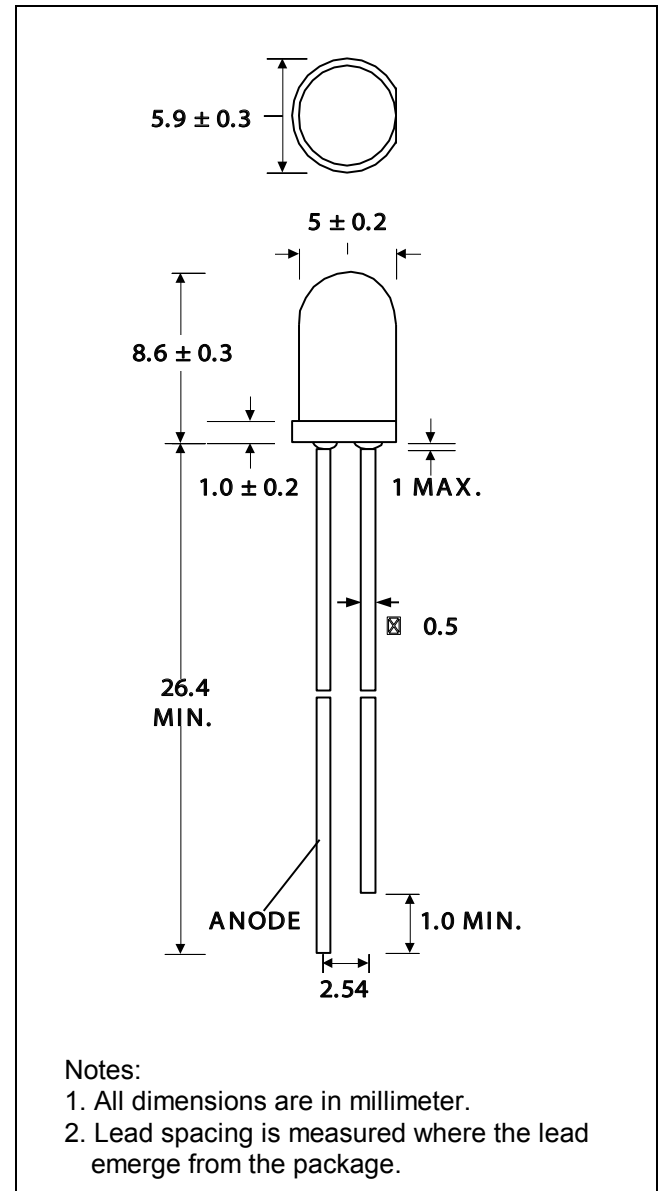
## Light Emitting Diode Lamp

### ★ DESCRIPTION

- Round type
- T1-3/4 (5mm) diameter
- Lens color: Orange Diffused
- With Flange
- Solder leads without stand-off
- Compliant with RoHS

### ★ FEATURES

- Emitted color: Orange
- Standard Luminous intensity
- Technology: GaAsP / GaP
- Peak wavelength  $\lambda_p = 630\text{nm}$
- Viewing angle:  $50^\circ$



### ★ Selection Guide

Part NO.	Chip		Lens Color	Viewing Angle
	Material	Color		
5-22-CD35	GaAsP/GaP	Orange	Orange Diffused	$50^\circ$

## Light Emitting Diode Lamp

Part No: 5-22-CD35

### ★ ABSOLUTE MAXIMUM RATINGS

(Ta=25° )

PARAMETER	SYMBOL	MAX. RATING	Unit
Power Dissipation	$P_D$	80	mW
Peak Forward Current (1/10 Duty Cycle @1KHz )	$I_{FP}$	50	mA
Reverse Voltage	$V_R$	5.0	V
Operating Temperature Range	$T_{OPR}$	-40~+85	
Storage Temperature Range	$T_{STG}$	-40~+85	

Solder temperature 1.6 mm from body for 3 seconds at 260

### ★ OPTICAL-ELECTRICAL CHARACTERISTICS

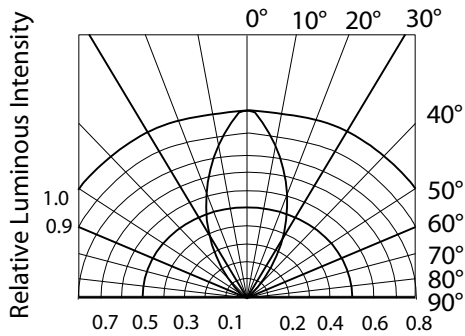
PARAMETER	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Luminous Intensity	$I_V$	$I_F = 20\text{mA}$	20	40		mcd
Forward Voltage	$V_F$	$I_F = 20\text{mA}$		2.0	2.6	V
Reverse Current	$I_R$	$V_R = 5\text{V}$			10	uA
Viewing Angle	$2\theta_{1/2}$	$I_F = 20\text{mA}$		50		deg.
Peak Wavelength	$\lambda_P$	$I_F = 20\text{mA}$		630		nm
Dominant Wavelength	$\lambda_D$	$I_F = 20\text{mA}$		625		nm
Spectrum Radiation Bandwidth	$\lambda$	$I_F = 20\text{mA}$		35		nm

\*Tolerance of Viewing Angle: -10 / +5 deg.

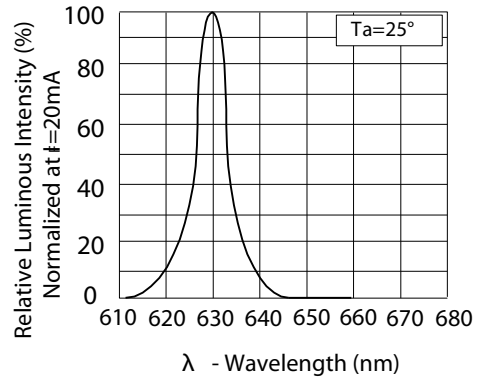
## Light Emitting Diode Lamp

Part No: 5-22-CD35

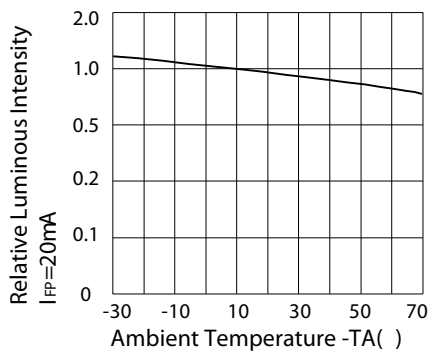
### ★ TYPICAL OPTICAL-ELECTRICAL CHARACTERISTIC CURVES



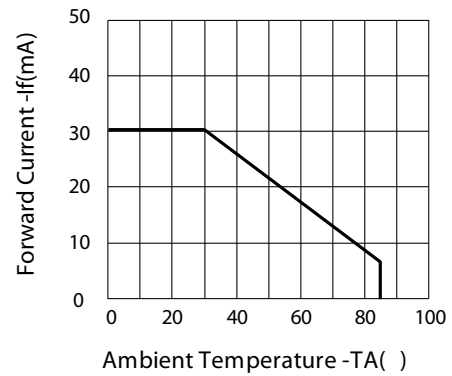
**RADIATION DIAGRAM**



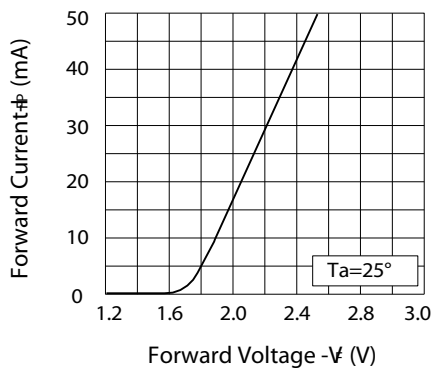
**RELATIVE LUMINOUS INTENSITY Vs. WAVELENGTH**



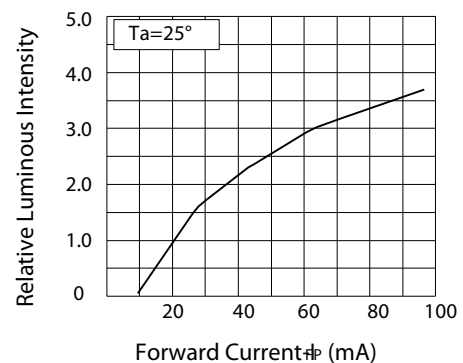
**LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE**



**FORWARD CURRENT Vs. AMBIENT TEMPERATURE**



**FORWARD CURRENT Vs. FORWARD VOLTAGE**



**LUMINOUS INTENSITY Vs. FORWARD CURRENT**