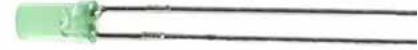


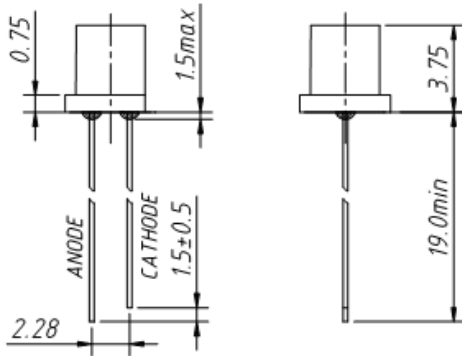
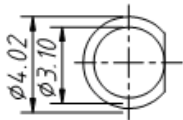
ARL2-3040PGC

Features:

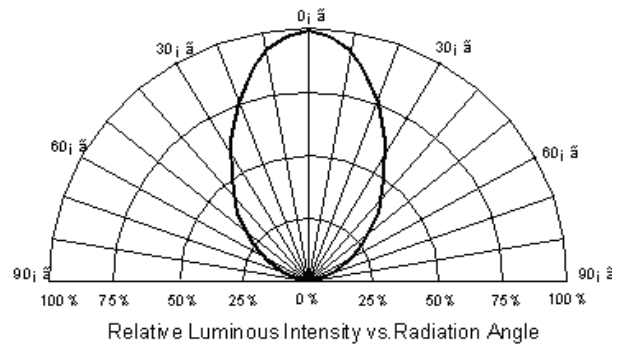
1. 3mm Columnar Type
2. Green LED Lamp
3. Water Clear Lens
4. Lamp Trilby Without Stopper



Package Dimensions (mm):



Spatial Distribution:



Notes:

1. All dimensions are in millimeters.
2. Tolerance is ± 0.2 mm unless otherwise specified.
3. An epoxy meniscus may extend about 1.5mm down the leads.
4. Burr around bottom of epoxy may be 0.5mm max.

Typical Electrical & Optical Characteristics (Ta=25°C)

Items	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F=20\text{mA}$	2.8	3.0	3.6	V
Reverse Current	I_R	$V_R=5\text{V}$	-	-	50	μA
Dominant Wavelength	λ_D	$I_F=20\text{mA}$	520	-	530	nm
Luminous Intensity	I_V	$I_F=20\text{mA}$	200	300	-	mcd
50% Power Viewing Angle	$2\theta_{1/2}$	$I_F=20\text{mA}$	-	110	-	deg

Absolute Maximum Ratings (Ta=25°C):

Items	Symbol	Absolute Maximum Rating	Unit
Forward Current	I_F	50	mA
Peak Forward Current*	I_{FP}	200	mA
Continuous Forward Current	I_L	20	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	150	mW
Derating Linear From 50°C		0.4	mA/°C
Operation Temperature	T_{opr}	-40 ~ +95	°C
Storage Temperature	T_{stg}	-40 ~ +100	°C
Lead Soldering Temperature	T_{sol}	Max.260°C for 5 sec Max.	

*IFP Conditions: Pulse Width $\leq 10\text{msec}$ duty $\leq 1/10$

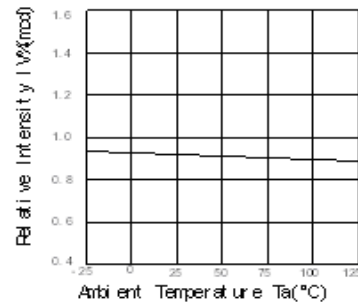
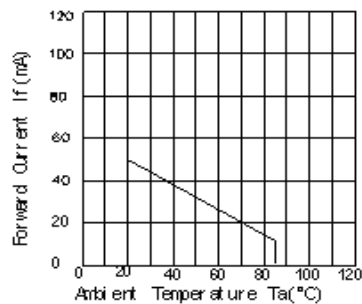
**Tsol Conditions: 4mm from the base of the epoxy bulb

Reliability Performance:

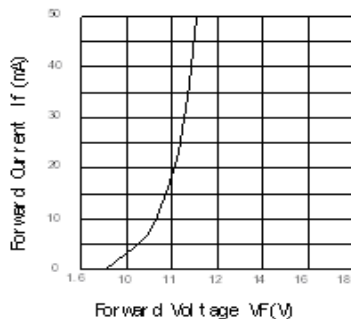
Test Classification	Test Item	Test Conditions	Test Duration	Sample Size	Ac/Re
Life Test	Life Test	$T_a = 25^\circ\text{C} \pm 5^\circ\text{C}$, $I_F = 20\text{mA}$	1000 (PGs)	30pcs	0/1
Environment Test	Thermal Shock Test	$-10^\circ\text{C} \pm 5^\circ\text{C} \longleftrightarrow +100^\circ\text{C} \pm 5^\circ\text{C}$ 5min. 10sec. 5min.	50 (cycles)	30pcs	0/1
	Temperature Cycle Test	$-55^\circ\text{C} \pm 5^\circ\text{C} \longleftrightarrow +85^\circ\text{C} \pm 5^\circ\text{C}$ 30min. 5min. 30min.	50 (cycles)	30pcs	0/1
	High Temperature & High Humidity Test	$T_a = 85^\circ\text{C} \pm 5^\circ\text{C}$ $RH = 85\% \pm 0.5\%RH$	1000 (PGs)	30pcs	0/1
	High Temperature Storage	$T_a = 100^\circ\text{C} \pm 5^\circ\text{C}$	1000 (PGs)	30pcs	0/1
	Low Temperature Storage	$T_a = -55^\circ\text{C} \pm 5^\circ\text{C}$	1000 (PGs)	30pcs	0/1
Mechanical Test	Resistance to Soldering Heat	$T_a = 260^\circ\text{C} \pm 5^\circ\text{C}$	5 (sec.)	30pcs	0/1
	Lead Integrity	$0^\circ \sim 90^\circ \sim 0^\circ$	3 (times)	30pcs	0/1

Typical Optical/Electrical Characteristics Curves ($T_a = 25^\circ\text{C}$ Unless Otherwise Noted):

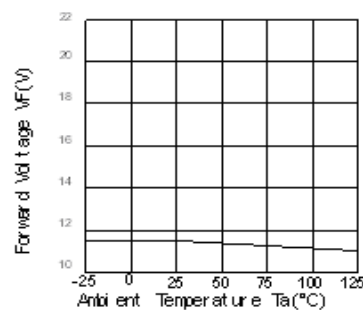
Forward Current vs. Ambient Temperature Relative Intensity vs. Ambient Temperature



Forward Current vs. Forward Voltage



Forward Voltage vs. Ambient Temperature



Luminous Spectrum ($T_a = 25^\circ\text{C}$) SPECTRAL RADIANCE

