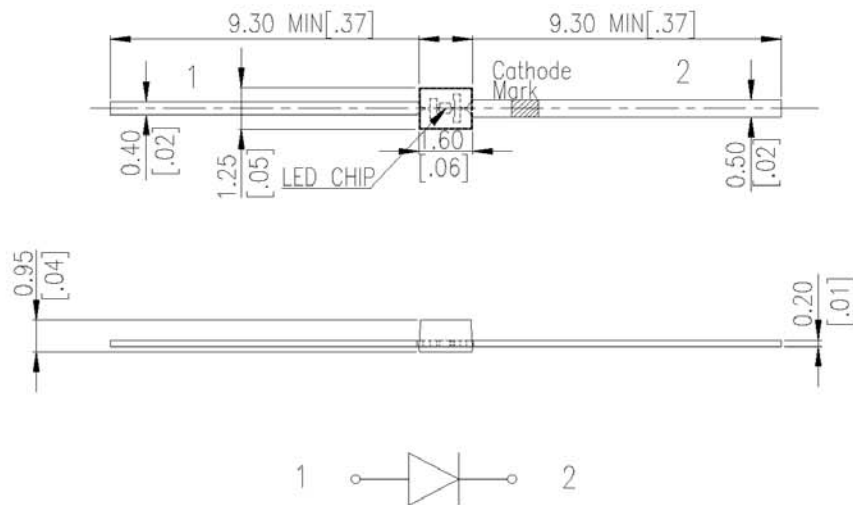


knitter-switch

AXIAL LED LAMP

Part Number : R

■ PACKAGE OUTLINE DIMENSIONS



Notes :

1. All dimensions are in millimeters.
2. Tolerance is $\pm 0.1\text{mm}$ (.004") unless otherwise noted
3. Lead spacing is measured where the leads emerge from the package.
4. Specifications are subject change without notice.

■ Chip Materials

- Dice Material : AlInGaP
- Light Color : Super Red
- Lens Color : Water Clear

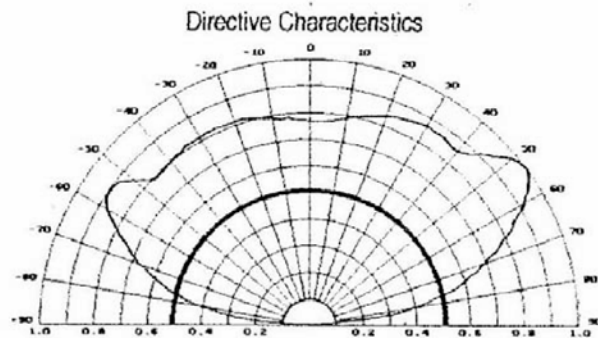
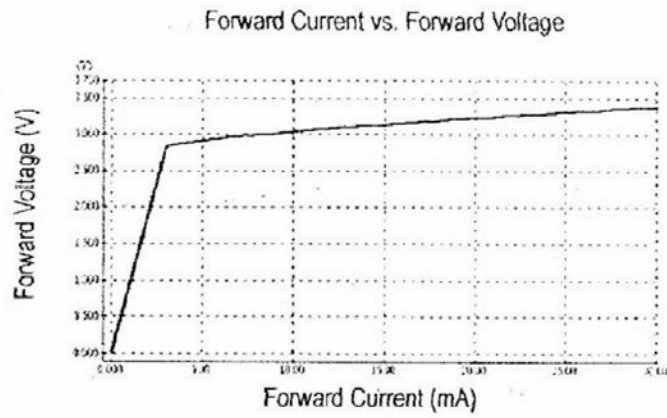
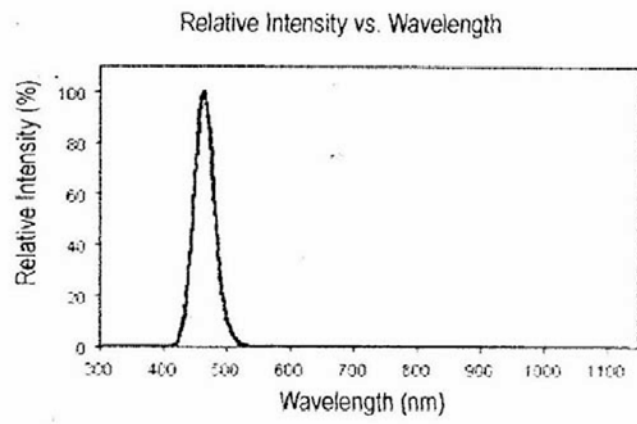
■ Absolute Maximum Ratings(Ta=25°C)

Parameter	Symbol	Value	Unit
Power Dissipation	Pd	75	mW
Peak Pulsing Current (1/8 Duty Cycle, f=1KHZ)	Ifp	125	mA
Forward Current	If	30	mA
Reverse Voltage	Vr	5	V
Operating Temperature Range	Topr	-20-80	°C
Storage Temperature Range	Tstg	-20-80	°C
Lead Soldering Temperature	Tsol	260°C For 5 SEC(5mm[0.2"]from body)	

■ Electro-Optical Characteristics(Ta=25°C)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Wavelength at peak emission	λ_v	If=20mA	80			Nm
Viewing Angle	$2\theta_{1/2}$	If=10mA		150		Deg
Dominant Wavelength	λ_D	If=20mA	635	640	645	nm
Spectral Line Half-Width	λ_P	If=20mA		630		nm
Forward Voltage	$\Delta\lambda$	If=20mA		21		V
Chip luminous intensity	Vf	If=20mA		2.0	2.5	mcd
Reverse Current	Ir	Vr=5V			10	μA

■ OPTICAL CHARACTERISTIC CURVES



■ Handling precautions

1. Over-current-prooff

Customer must apply resistors for protection; otherwise slight voltage shift will cause big current change(Burn out will happen)

2. Storage

2.1 It is recommended to store the products in the following conditions :

Humidity : 60% R.H. Max.

Temperature : 5°C-30°C(41°F-86°F)

2.2 Shelf life in sealed bag : 12 month at <5°C-30°C and <30% R.H. after the package is opened, the products should be used within a week or they should be keeping to stored at ≤ 20 R.H. with zip-lock sealed.

3. Baking

It is recommended to baking before soldering when the pack is unsealed after 72hrs.

The Conditions are as followings :

3.1 $60 \pm 3^\circ\text{C} \times (12-24\text{hrs})$ and $< 5\% \text{RH}$, taped reel type

3.2 $100 \pm 3^\circ\text{C} \times (45\text{min}-1\text{hrs})$, bulk type

3.3 $130 \pm 3^\circ\text{C} \times (15-30\text{min})$, bulk type

When you discover that the desiccant in the package has a pink

color(normal=blue), you Should treat them in the same conditions as (3.1-3.3)

■ Test items and results of reliability

Type	Test Item	Test Conditions	Note	Number of Damaged
Environmental Sequence	Temperature Cycle	-20°C 30min ↑ ↓ 80°C 30min	100 cycle	0/22
	Thermal Shock	-20°C 15min ↑ ↓ 80°C 15min	100 cycle	0/22
	High Humidity Heat Cycle	30°C ⇄ 65°C 90%RH 24hrs/1cycle	10 cycle	0/22
	High Temperature Storage	Ta=80°C	1000 hrs	0/22
	Humidity Heat Storage	Ta=60°C RH=90%	1000 hrs	0/22
	Low Temperature Storage	Ta=-30°C	1000 hrs	0/22
Operation Sequence	Life Test	Ta=25°C If=10mA	1000 hrs	0/22
	High Humidity Heat Life Test	60°C RH=90% If=10mA	500 hrs	0/22
	Low Temperature Life Test	Ta=-20°C If=20mA	1000 hrs	0/22