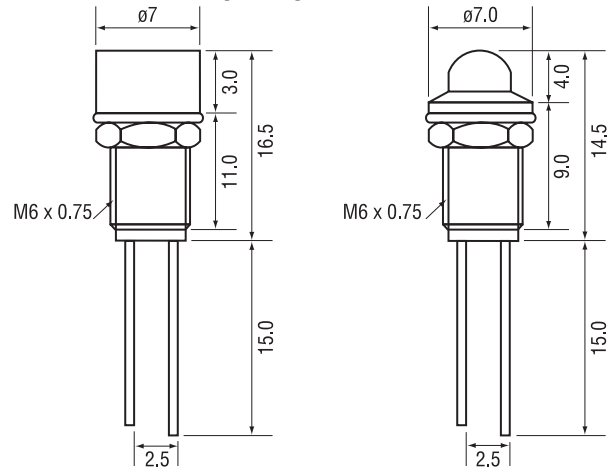


### Features:

- Fitted with 3mm standard LED
- Black or bright chrome
- Recessed or prominent
- Choice of 4 LED colours

### Dimensions (mm):



Recessed

Prominent

Mounting hole  $\phi 6.1\text{mm}$

Order code	MPN	LED Colour	Description
<b>42-0605</b>	L-34GD	Green	3mm Chrome recessed LED indicator
<b>42-0995</b>	3CRINDW	White	
<b>42-0625</b>	L-34GD	Green	3mm Chrome prominent LED indicator
<b>42-0630</b>	L-34YD	Yellow	
<b>42-1002</b>	3CPINDB	Blue	
<b>42-0640</b>	L-34HD	Red	3mm Black recessed LED indicator
<b>42-0645</b>	L-34GD	Green	
<b>42-0993</b>	3BRINDW	White	
<b>42-1001</b>	3BRINDB	Blue	
<b>42-0660</b>	L-34HD	Red	3mm Black prominent LED indicator
<b>42-0665</b>	L-34GD	Green	
<b>42-0992</b>	3BPINDW	White	

## T-1 (3mm) Solid state lamps

### Features:

- High intensity
- Low power consumption
- Popular T-1 diameter package
- General purpose leads
- Reliable and rugged
- Long-life – solid state reliability
- Available on tape and reel

### Description:

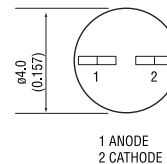
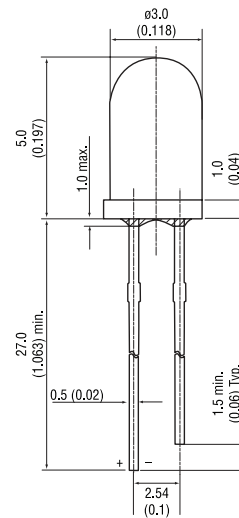
The Bright Red source colour devices are made with Gallium Phosphide Red Light Emitting Diode.

The Green source colour devices are made with Gallium Phosphide Green Light Emitting Diode.

The High Efficiency Red source colour devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

The Yellow source colour devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow Light Emitting Diode.

Bright Red
High Efficiency Red
Green
Yellow
Amber



- Notes:
1. All dimensions are in millimeters (inches).
  2. Tolerance is  $\pm 0.25$  (0.01) unless otherwise noted.
  3. Lead spacing is measured where the lead emerge package.
  4. Specifications are subjected to change without notice.

Dice	Lens type	IV (mcd) @10mA		Viewing Angle $2\theta_{1/2}$
		Minimum	Maximum	
Bright Red (GaP)	Red diffused	1.3	3.2	60°
High efficiency Red (GaAsP/GaP)	Red diffused	8	50	60°
Green (GaP)	Green diffused	5	32	60°
Yellow (GaAsP/GaP)	Yellow diffused	5	20	60°
	Amber diffused	5	20	60°

Note:

$\theta_{1/2}$  is the angle from the optical centreline where the luminous intensity is 1/2 the optical centreline value.

## Electrical – Optical characteristics (Ta = 25°C)

Symbol	Parameter	Device	Typ.	Max.	Units	Test conditions
$\lambda_{peak}$	Peak wavelength	BRIGHT RED HIGH EFFICIENCY RED GREEN YELLOW	700 625 565 590		nm	$I_F = 20mA$
$\Delta\lambda_{1/2}$	Spectral line halfwidth	BRIGHT RED HIGH EFFICIENCY RED GREEN YELLOW	45 45 30 35		nm	$I_F = 20mA$
C	Capacitance	BRIGHT RED HIGH EFFICIENCY RED GREEN YELLOW	49 12 45 10		pF	$V_F = 0V$ ; $f = 1MHz$
$V_F$	Forward voltage	BRIGHT RED HIGH EFFICIENCY RED GREEN YELLOW	2.0 2.0 2.5 2.5	2.5 2.5 2.5 2.5	V	$I_F = 20mA$
$I_R$	Reverse current	All	10		$\mu A$	$V_R = 5V$

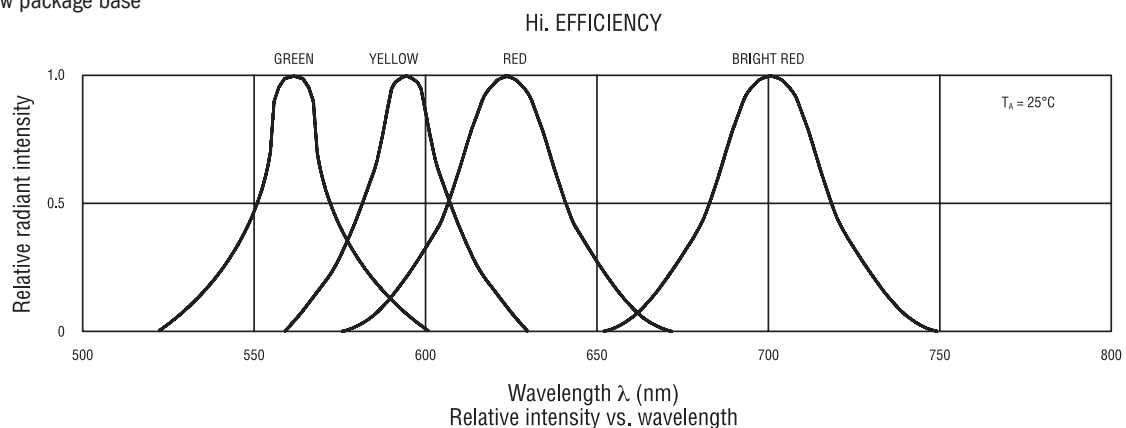
## Absolute maximum rating (Ta = 25°C)

Parameter	Bright Red	High Efficiency Red	Green	Yellow	Units
Power dissipation	120	105	105	105	mW
DC Forward current	25	30	25	30	mA
Peak forward current <sup>1</sup>	150	150	150	150	mA
Reverse voltage	5	5	5	5	V
Operating/storage temperature	-40 to +85°C				
Lead soldering temperature <sup>2</sup>	260°C for 5 seconds				

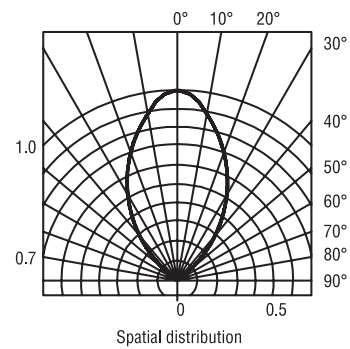
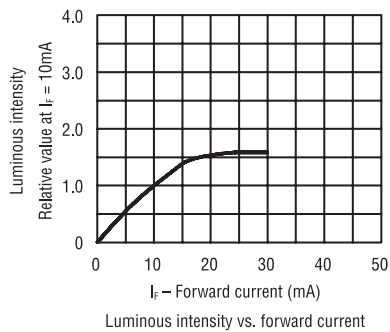
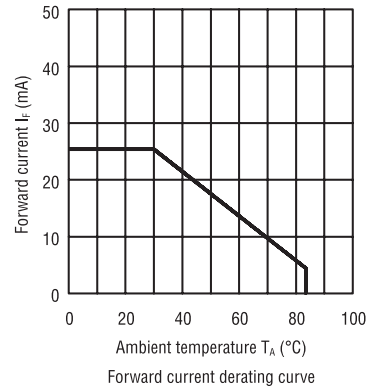
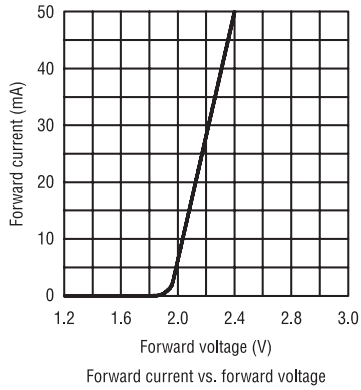
Notes:

1: 1/10 Duty cycle, 0.1ms pulse width.

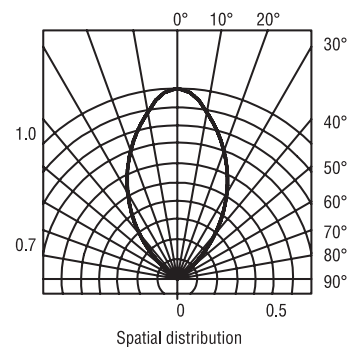
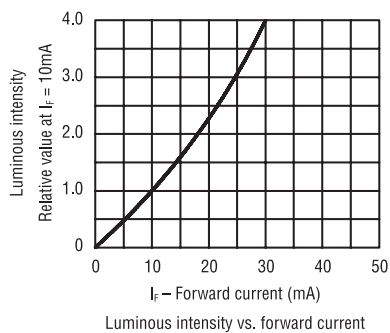
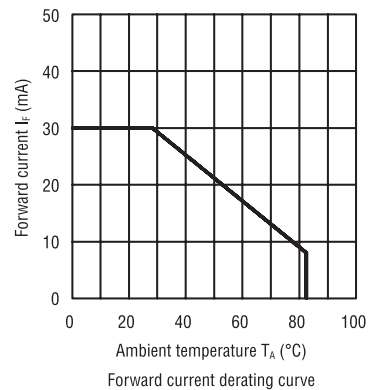
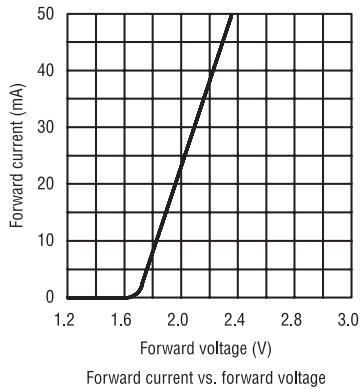
2: 4mm below package base



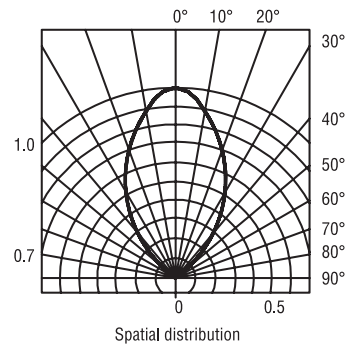
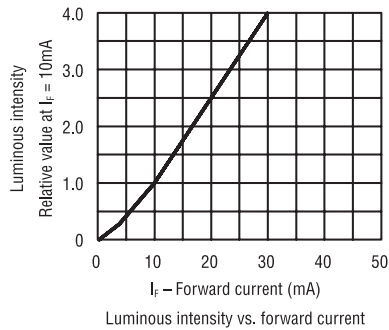
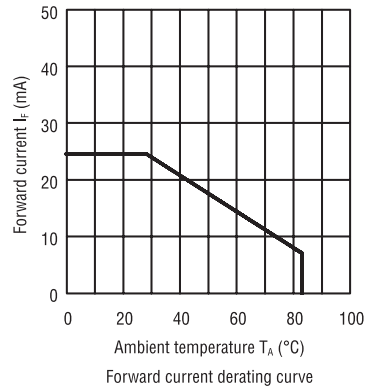
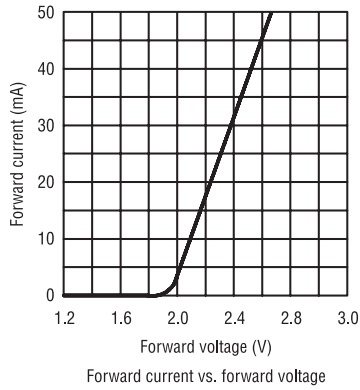
## Bright Red



## High Efficiency Red



## Green



## Yellow/Amber

