VISIBLE LED LAMPS

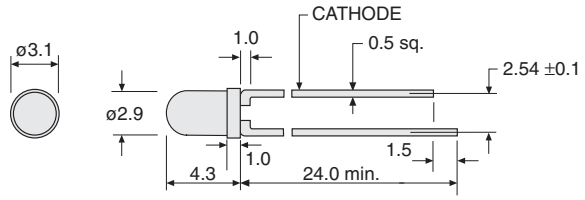
Standard 3mm / T1 package

LMx32D(x) series (high bright)

Features

- *Standard 3mm round package*
- *High luminous output*
- *Coloured diffused lens*
- *Solid state reliability*

Package



1. Dimensions are mm. Tolerance ±0.25mm unless otherwise stated.
2. An epoxy meniscus may extend 1.0mm down the leads.
3. Burr around base of the body 0.5mm max.

Electrical & Optical Characteristics (at T_A = 25°C)

Part Number	LED Chip: Material	LED Chip: Emitted Colour	LED Chip: Brightness	Lens Colour	Peak Wavelength (nm) at 20mA	Luminous Intensity (mcd) at 20mA: min.	Luminous Intensity (mcd) at 20mA: typ.	Forward Voltage (V) at 20mA: typ.	Forward Voltage (V) at 20mA: max.	Viewing Angle $2\theta_{1/2}$ (deg)
LMR32DB	GaAlAs on GaAs	Red	Mega	Red diffused	660	38.0	63.0	1.7	2.2	47
LMR32DC	GaAlAs on GaAs	Red	Mega	Red diffused	660	63.0	105.0	1.7	2.2	47
LMR32DE	GaAlAs on GaAlAs	Red	Mega	Red diffused	660	133.0	221.0	1.9	2.5	47
LMO32DE	InGaAlP on GaAs	Orange	Mega	Orange diffused	621	149.0	248.0	2.0	2.4	54
LMY32DE	InGaAlP on GaAs	Yellow	Mega	Yellow diffused	593	66.2	120.4	2.1	2.4	54
LMG32D	GaP	Green	Mega	Green diffused	567	27.0	45.0	2.1	2.6	54

Maximum Ratings (at T_A = 25°C)

Reverse Voltage (<100µA) .... Green 5.0V, others 4.0V

D.C. Forward Current 30mA

Pulse Current
($^1/_{10}$ Duty Cycle, 0.1ms Pulse Width) 100mA

Operating Temperature Range ..... -25 to +85°C

Storage Temperature Range ..... -25 to +100°C

Lead Soldering Temperature
(1.6mm from body) ..... 260°C for 5 sec.

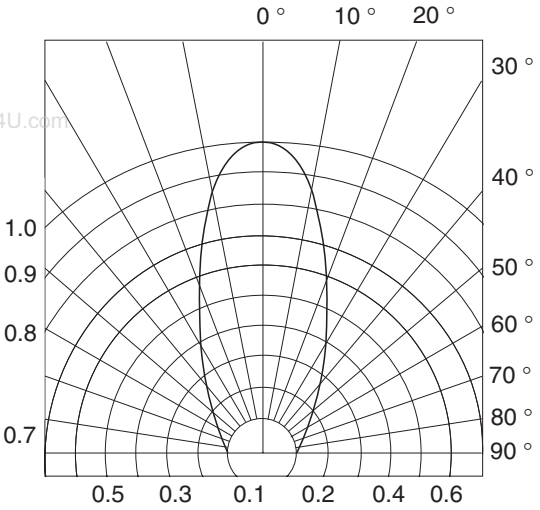
Part Number Key

L M □ 32 D □

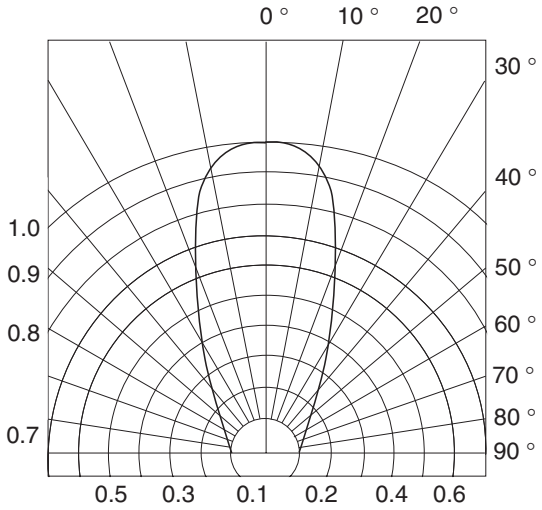
- BRIGHTNESS: **M** = Mega
- COLOUR: **R** = Red, **O** = Orange, **Y** = Yellow, **G** = Green
- LENS: **D** = Coloured diffused
- Luminous intensity category

LMx32D(x) series (high bright)

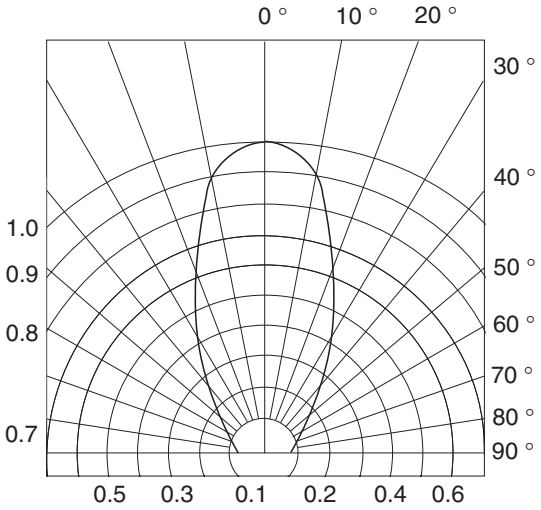
Radiation Pattern



Red Output



Orange Output



Yellow Output
Green Output