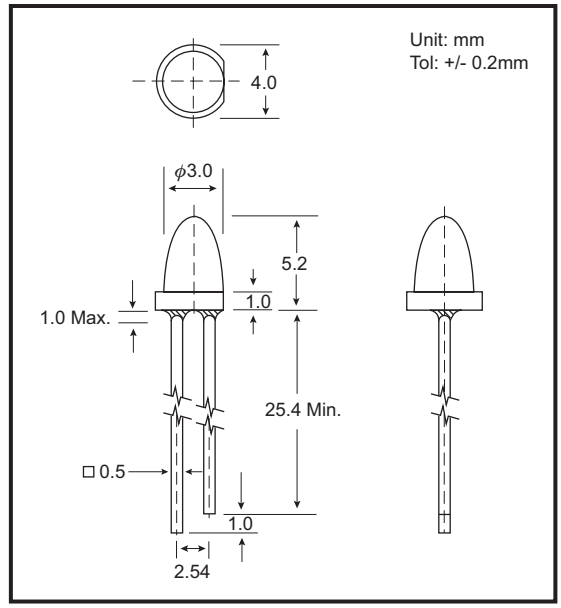
LUCKY LIGHT

GB-204 SERIES
Round Type
Super Bright, Narrow Angle
LED Lamps (3mm)

DESCRIPTION:

The 204 Super Bright series is specially designed for applications requiring higher intensity than the standard lamp. The light generated is focused to a narrow beam to achieve the effect.
The semi-conductor materials used are:
GaAlAs for (204HR3C/HR3D)
GaP for (204VGC/VGD, 204YGUC/YGUD)
GaAs/GaP for (204VYC/VYD)
AlGaInP for (204UY1C/UY1D)

PACKAGE DIMENSIONS



ABSOLUTE MAXIMUM RATINGS: (Ta=25°C)

Reverse Voltage	5 Volt
Reverse Current (Vr =5V)	100μA
Operating Temperature Range	-40°C To 85°C
Storage Temperature Range	-40°C To 100°C
Lead Soldering Temperature (1.6mm (1/16)From Body)	260°C For 5 Seconds

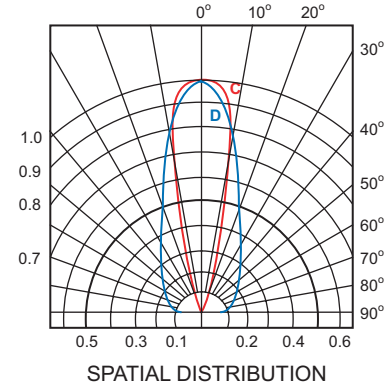
NOTES : 1. All dimensions are in millimeters.
2. Lead spacing is measured where the leads emerge from the package.
3. Protuded resin under flange is 1.5 mm (0.059") Max.

PART NO. SELECTION AND APPLICATION INFORMATION (RATINGS AT 25°C AMBIENT)

Part No.	Emitted Color	Lens Color	Peak Wavelength λp (nm)	Vf (v) Min	Vf (v) Max	Rec. If (mA).	Iv (mcd) Min	Iv (mcd) Typ.	View Angle 2θ1/2(Deg)
GB-204HR3D	Super Red	Red Diffused	660	1.7	2.6	10-20	45.0	60.0	40
GB-204VGD	Super Green	Green Diffused	565	1.7	2.6	10-20	25.0	80.0	40
GB-204YGUD	Super Green	Green Diffused	565	1.7	2.6	10-20	40.0	90.0	40
GB-204VYD	Super Yellow	Yellow Diffused	585	1.7	2.6	10-20	30.0	75.0	40
GB-204UY1D	Super Yellow	Yellow Diffused	590	1.7	2.6	10-20	150.0	220.0	40
GB-204HR3C	Super Red	Water Clear	660	1.7	2.6	10-20	120.0	170.0	22
GB-204VGC	Super Green	Water Clear	565	1.7	2.6	10-20	95.0	140.0	22
GB-204YGUC	Super Green	Water Clear	565	1.7	2.6	10-20	135.0	190.0	22
GB-204VYC	Super Yellow	Water Clear	585	1.7	2.6	10-20	86.0	120.0	22
GB-204UY1C	Super Yellow	Water Clear	590	1.7	2.6	10-20	420.0	600.0	22

TESTING CONDITION FOR EACH PARAMETER :

PARAMETER:	SYMBOL	UNIT	TEST CONDITION
REVERSE VOLTAGE	Vr	VOLT	Vr = 5.0 Volt
REVERSE CURRENT	Ir	μA	If = 20mA
FORWARD VOLTAGE	Vf	VOLT	If = 20mA
LUMINOUS INTENSITY	Iv	MCD	If = 20mA
VIEWING ANGLE	2θ1/2	DEGREE	
RECOMMENDED OPERATING CURRENT	If (Rec)	mA	



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