

#### **DESCRIPTION:**

The 1009 series is three leaded bicolor light sources designed and white diffused for a variety of applications where dual state illumination is required

There are two different chips mounted on a central common cathode lead. Colors can be generated by independently pulse width modulating the chips. The semi-conductor materials used are:

GaP for (H, G)

GaAsP/GaP for (E, Y)

### ABSOLUTE MAXIMUM RATINGS: (Ta=25°C)

5 Volt
100μΑ
-40°C To 85°C
-40°C To 100°C
260°C For 5 Seconds

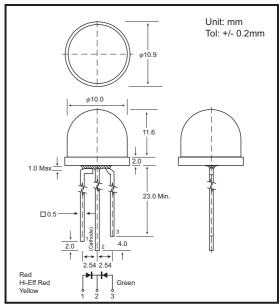
NOTES: 1. All dimensions are in millimeters.

- 2. Lead spacing is measured where the leads emerge from the package
- 3. Protuded resin under flange is 1.5 mm (0.059") Max.
- 4. Specifications are subject to change without notice.

# GB-1009 SERIES

Multi-Color, Common Cathode 10mm Round Type LED Lamps (3 Pins)

#### **PACKAGE DIMENSIONS**

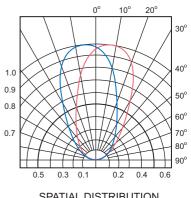


## PART NO. SELECTION AND APPLICATION INFORMATION (RATINGS AT 25°C AMBIENT)

Part No.	Emitted Color	Lens Color	Peak Wavelength λp (nm)	Vf Min	(v) Max	Rec. If (mA).	,	ncd) Typ.	View Angle 2θ1/2(Deg)
GB-1009HGW	Red	White Diffused	697	1.7	2.6	10-20	8.6	10.0	65
	Green	White Diffused	565	1.7	2.6	10-20	17.0	20.0	65
GB-1009EGW	Hi-Eff Red	White Diffused	635	1.7	2.6	10-20	17.0	20.0	65
	Green	White Diffused	565	1.7	2.6	10-20	17.0	20.0	65
GB-1009YGW	Yellow	White Diffused	585	1.7	2.6	10-20	17.0	20.0	65
	Green	White Diffused	565	1.7	2.6	10-20	34.0	40.0	65

#### **TESTING CONDITION FOR EACH PARAMETER:**

PARAMETER: REVERSE VOLTAGE REVERSE CURRENT FORWARD VOLTAGE LUMINOUS INTENSITY VIEWING ANGLE	SYMBOL Vr Ir Vf Iv 201/2	UNIT VOLT μΑ VOLT MCD DEGREE	TEST CONDITION Vr = 5.0 Volt If = 20mA If = 20mA If = 20mA
RECOMMENDED OPERATING CURRENT	If (Rec)	mA	



SPATIAL DISTRIBUTION