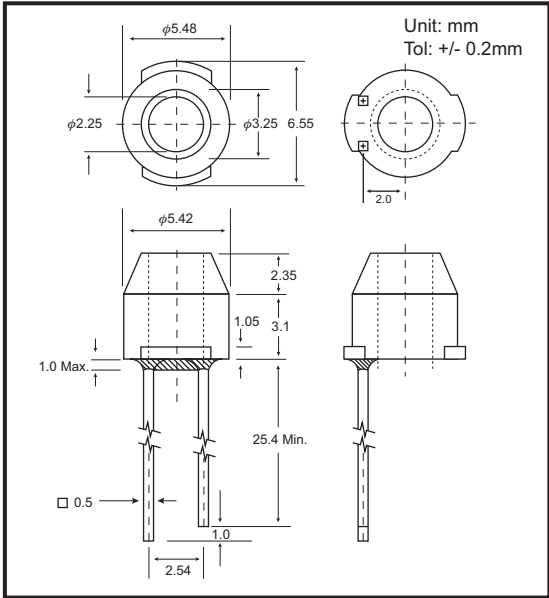


## GB-983 SERIES

Pen-Head Type, Single Chip  
LED Lamps (5.4mm)

**DESCRIPTION:**

The 983 series is specially designed for Pen-Head application.  
 The semi-conductor materials used are:  
 GaAlAs for (983HR3W)  
 GaP for (983VGW, 983YGUW)  
 GaAsP/GaP for (983VYW)  
 AlGaInP for (983UY1W, 983UO1W)

**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)		Rec. If (mA).	Iv (mcd)		View Angle 2θ1/2(Deg)
				Min	Max		Min	Typ.	
GB-983HR3W	Super Red	White Diffused	660	1.7	2.6	10-20	3.2	7.0	175
GB-983VGW	Super Green	White Diffused	565	1.7	2.6	10-20	2.3	5.0	175
GB-983VYW	Super Yellow	White Diffused	585	1.7	2.6	10-20	2.3	5.0	175
GB-983YGUW	Super Green	White Diffused	565	1.7	2.6	10-20	3.6	8.0	175
GB-983UY1W	Super Yellow	White Diffused	590	1.7	2.6	10-20	4.5	10.0	175
GB-983UO1W	Amber	White Diffused	620	1.7	2.6	10-20	7.7	17.0	175
GB-983B472W	Blue	White Diffused	470	2.8	4.5	10-20	45.0	150.0	175

**TESTING CONDITION FOR EACH PARAMETER :**

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

