

XH-95-21-02 SERIES

Gull-Wing Lead LED Lamps ($\phi 1.8\text{mm}$)

DESCRIPTION:

The 95-21-02 series is subminiature LED Lamps with dome package and is widely used for application requiring higher luminous intensity within a narrow radiation pattern.

The semi-conductor materials used are:

GaP for (95-21HC-02/HD-02, 95-21GC-02/GD-02/VGC-02/VGD-02)

GaAlAs for (95-21HR3C-02/HR3D-02)

GaAsP/GaP for (95-21YC-02/YD-02/VYC-02/VYD-02, 95-21SC-02/SD-02)

ABSOLUTE MAXIMUM RATINGS: ($T_a=25^{\circ}\text{C}$)

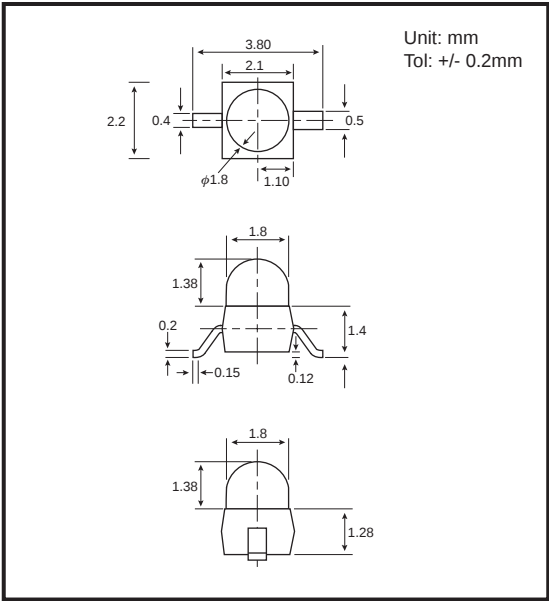
Reverse Voltage	5 Volt
Reverse Current ($V_r=5\text{V}$)	100 μA
Operating Temperature Range	-40 $^{\circ}\text{C}$ To 85 $^{\circ}\text{C}$
Storage Temperature Range	-40 $^{\circ}\text{C}$ To 100 $^{\circ}\text{C}$
Lead Soldering Temperature (1.6mm (1/16)From Body)	260 $^{\circ}\text{C}$ For 5 Seconds

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.

PACKAGE DIMENSIONS



PART NO. SELECTION AND APPLICATION INFORMATION (RATINGS AT 25 $^{\circ}\text{C}$ AMBIENT)

Part No.	Emitted Color	Lens Color	Peak Wavelength λ_p (nm)	Vf (v)		Rec. If (mA).	Iv (mcd)		View Angle $2\theta_{1/2}(\text{Deg})$
				Min	Max		Min	Typ.	
XH-95-21HD-02	Red	Red Diffused	697	1.7	2.6	20	2.0	2.5	50
XH-95-21GD-02	Green	Green Diffused	565	1.7	2.6	20	3.0	6.5	50
XH-95-21YD-02	Yellow	Yellow Diffused	585	1.7	2.6	20	3.0	6.5	50
XH-95-21HR3D-02	Super Red	Red Diffused	660	1.7	2.6	20	55.0	100.0	50
XH-95-21VGD-02	Super Green	Green Diffused	565	1.7	2.6	20	10.0	16.0	50
XH-95-21VYD-02	Super Yellow	Yellow Diffused	585	1.7	2.6	20	7.0	11.0	50
XH-95-21HC-02	Red	Water Clear	697	1.7	2.6	20	3.0	6.0	25
XH-95-21GC-02	Green	Water Clear	565	1.7	2.6	20	11.0	19.5	25
XH-95-21YC-02	Yellow	Water Clear	585	1.7	2.6	20	10.0	16.0	25
XH-95-21HR3C-02	Super Red	Water Clear	660	1.7	2.6	20	110.0	170.0	25
XH-95-21VGC-02	Super Green	Water Clear	565	1.7	2.6	20	30.0	50.0	25
XH-95-21VYC-02	Super Yellow	Water Clear	585	1.7	2.6	20	18.0	30.0	25

TESTING CONDITION FOR EACH PARAMETER :

PARAMETER:	SYMBOL	UNIT	TEST CONDITION
REVERSE VOLTAGE	V_r	VOLT	$V_r = 5.0 \text{ Volt}$
REVERSE CURRENT	I_r	μA	$I_f = 20\text{mA}$
FORWARD VOLTAGE	V_f	VOLT	$I_f = 20\text{mA}$
LUMINOUS INTENSITY	I_v	MCD	$I_f = 20\text{mA}$
VIEWING ANGLE	$2\theta_{1/2}$	DEGREE	
RECOMMENDED OPERATING CURRENT	I_f (Rec)	mA	

