

XH-28-21 SERIES

Axial Type
LED Lamps (1.4mm Height)

DESCRIPTION:

The 28-21 series is subminiature LED Lamps with flat top package and is widely used for backlighting and light piping applications.

The semi-conductor materials used are:

GaP for (28-21HC/HD, 28-21GC/GD/VGC/VGD)

GaAlAs for (28-21HR3C/HR3D)

GaAsP/GaP for (28-21YC/YD/VYC/VYD, 28-21SC/SD)

ABSOLUTE MAXIMUM RATINGS: (Ta=25°C)

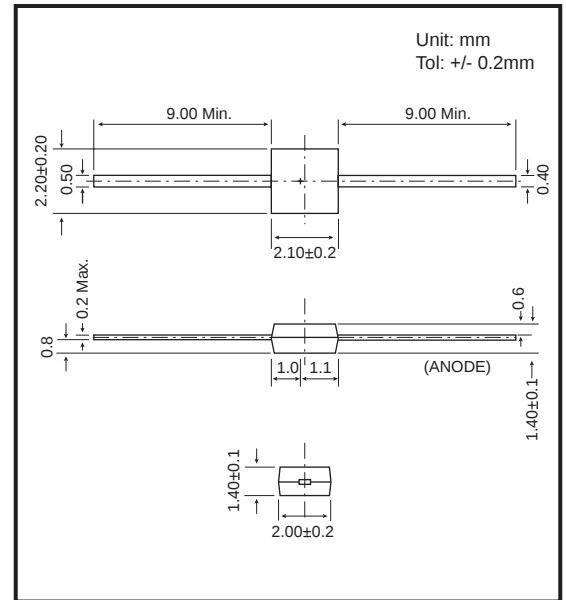
Reverse Voltage	5 Volt
Reverse Current (Vr =5V)	100μA
Operating Temperature Range	-40°C To 85°C
Storage Temperature Range	-40°C To 100°C
Lead Soldering Temperature (1.6mm (1/16)From Body)	260°C For 5 Seconds

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.

PACKAGE DIMENSIONS



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

Part No.	Emitted Color	Lens Color	Peak Wavelength λ_p (nm)	Vf (v)		Rec. If (mA).	Iv (mcd)		View Angle $2\theta_{1/2}$ (Deg)
				Min	Max		Min	Typ.	
XH-28-21HD	Bright Red	Red Diffused	697	1.7	2.6	20	0.24	0.3	270
XH-28-21GD	Green	Green Diffused	565	1.7	2.6	20	0.36	1.3	270
XH-28-21YD	Yellow	Yellow Diffused	585	1.7	2.6	20	0.36	1.3	270
XH-28-21HR3D	Super Red	Red Diffused	660	1.7	2.6	20	6.6	12.0	270
XH-28-21VGD	Super Green	Green Diffused	565	1.7	2.6	20	1.2	1.92	270
XH-28-21VYD	Super Yellow	Yellow Diffused	585	1.7	2.6	20	0.84	1.32	270
XH-28-21HC	Bright Red	Water Clear	697	1.7	2.6	20	4.0	6.0	150
XH-28-21GC	Green	Water Clear	565	1.7	2.6	20	2.4	3.5	150
XH-28-21YC	Yellow	Water Clear	585	1.7	2.6	20	1.2	2.0	150
XH-28-21HR3C	Super Red	Water Clear	660	1.7	2.6	20	13.2	20.4	150
XH-28-21VGC	Super Green	Water Clear	565	1.7	2.6	20	3.6	6.0	150
XH-28-21VYC	Super Yellow	Water Clear	585	1.7	2.6	20	2.2	3.6	150

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	$2\theta_{1/2}$	DEGREE	
RECOMMENDED OPERATING CURRENT	If (Rec)	mA	

