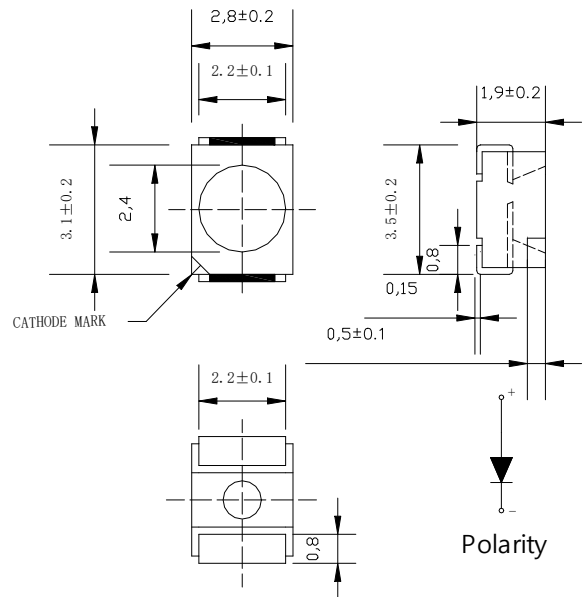


GNL-1210xx (3.1X2.8mm TOP TYPE) Ultra Brightness LED

ABSOLUTE MAXIMUM RATING:(Ta=25°C)

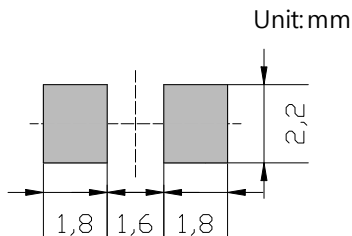
Parameter	Symbol	Max	Unit
DC Forward Current	I_F	30	mA
Reverse Voltage	V_R	5	V
Reverse Current (Vr=5V)	I_R	10	μA
Peak Forward Current ,tw ,=1 msec Duty ,=1/20	I_{FP}	80	mA
Operation Temperature	T_{opr}	-40-85	°C
Storage Temperature	T_{stg}	-55-100	°C
Solder Dip (5 seconds,1.6mm from body) Temperature		260	°C



Features:

- Compatible with automatic placement equipment
- Compatible with reflow solder process

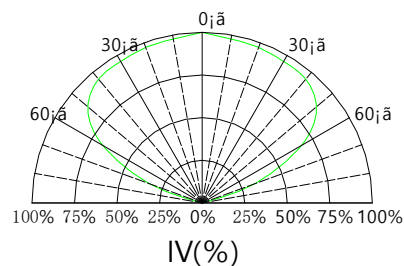
Soldering Pad Dimensions



Applications:

- Automotive and Telecommunication
- General use for indicators

Viewing Pattern



Part Number	EMITTED COLOR		Lens Color	Peak Wavelength (nm)	Vf (v) Typ	IV (If=20mA) mcd		View Angle 2 θ 1/2
						Min.	Typ.	
GNL-1210LRC	GaAlAs	Super Red	Water Clear	640	1.9	70	180	120°
GNL-1210URC	GaAlAs	Super Red	Water Clear	640	1.9	80	120	120°
GNL-1210HRC	AlGaInP	Super red	Water Clear	630	2.1	100	200	120°
GNL-1210HRC-TL	AlGaInP	Hi. Super red	Water Clear	630	2.1	300	500	120°
GNL-1210UEC	AlGaInP	Orange Red	Water Clear	625	2.1	600	800	120°
GNL-1210UEC-TL	AlGaInP	Hi. Orange Red	Water Clear	625	2.1	800	1000	120°
GNL-1210UEC-1	AlGaInP	Orange Red	Water Clear	625	2.1	400	600	120°
GNL-1210UYC	AlGaInP	Super Yellow	Water Clear	590	2.1	600	800	120°
GNL-1210UYC-TL	AlGaInP	Hi. Super Yellow	Water Clear	590	2.1	800	1000	120°
GNL-1210UYC-1	AlGaInP	Super Yellow	Water Clear	590	2.1	100	300	120°
GNL-1210UGC	AlGaInP	Yellow Green	Water Clear	573	2.1	150	250	120°

GNL-1210UBC	InGaN	Super Blue	Water Clear	470	3.5	300	400	120°
GNL-1210PGC	InGaN	Super Pure Green	Water Clear	525	3.5	1000	1300	120°
GNL-1210UWC	InGaN	Super White	Water Clear		3.5	900	1200	120°