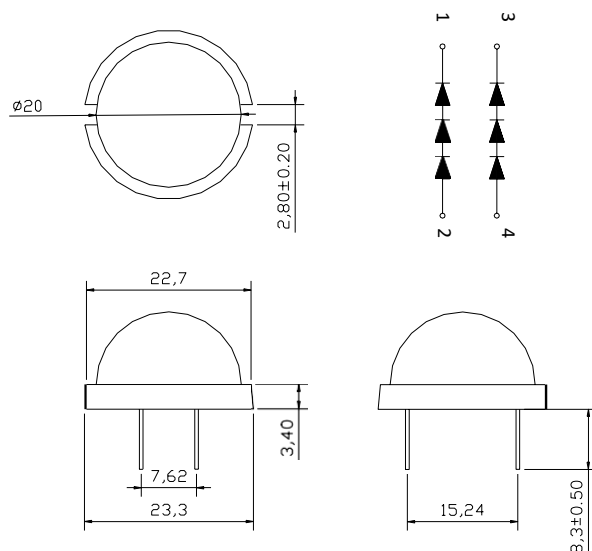


GNL-20003xx (Φ 20mm ROUND TYPE) Ultra Brightness

ABSOLUTE MAXIMUM RATING:(Ta=25°C)

Parameter			Unit
DC Forward Current	30		mA
Reverse Voltage	5		V
Reverse Current (Vr=5V)	10		μA
Peak Forward Current ,tw ,=1 msec Duty ,=1/20	150		mA
Operation Temperature	-40	+80	°C
Storage Temperature	-40	+100	°C
Solder Dip (5 seconds,1.6mm from body) Temperature	260	± 5	°C



Feature:

- 1.Small flange without stand-off
- 2.Long life-solid state reliability
- 3.Versatile mounting on P.C. board or panel

Description:

1. The shape of this series is round
2. General application is for indication,illumination,etc.
- 3.These LED lamps are available with a choice of defferent colors,light intensities,epoxy colors,etc.

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-20003SRD	GaAlAs	Super Red	Red Diffused	660	1.9	75	150	120°
GNL-20003LRD	GaAlAs	Super Red	Red Diffused	660	1.9	100	200	120°
GNL-20003UED	AlGaInP	Super Orange Red	Red Diffused	625	2.0	200	400	120°
GNL-20003UGD	AlGaInP	Yellow Green	Green Diffused	572	2.0	150	300	120°
GNL-20003UYD	AlGaInP	Super Yellow	Yellow Diffused	588	2.0	200	400	120°
GNL-20003UBD	InGaIn	Super Blue	Blue Diffused	470	3.5	250	400	120°
GNL-20003PGD	InGaIn	Super Pure Green	Green Diffused	525	3.5	900	1200	120°
GNL-20003WW	InGaIn	Super White	White Diffused		3.5	1000	2000	120°
GNL-20003UWW	InGaIn	Super White	White Diffused		3.5	1800	3500	120°
GNL-20003SRT	GaAlAs	Super Red	Red Clear	660	1.9	90	180	60°
GNL-20003LRT	GaAlAs	Super Red	Red Clear	660	1.9	120	240	60°
GNL-20003UET	AlGaInP	Super Orange Red	Red Clear	625	2.0	240	480	60°
GNL-20003UGT	AlGaInP	Yellow Green	Green Clear	572	2.0	180	360	60°

GNL-20003UYT	AlGaInP	Super Yellow	Yellow Clear	588	2.0	240	480	60°
GNL-20003UBT	InGaN	Super Blue	Blue Clear	470	3.5	300	480	60°
GNL-20003PGT	InGaN	Super Pure Green	Green Clear	525	3.5	1200	2000	60°
GNL-20003WC	InGaN	Super White	Water clear		3.5	2000	4000	60°
GNL-20003UWC	InGaN	Super White	Water Clear		3.5	3000	5000	60°