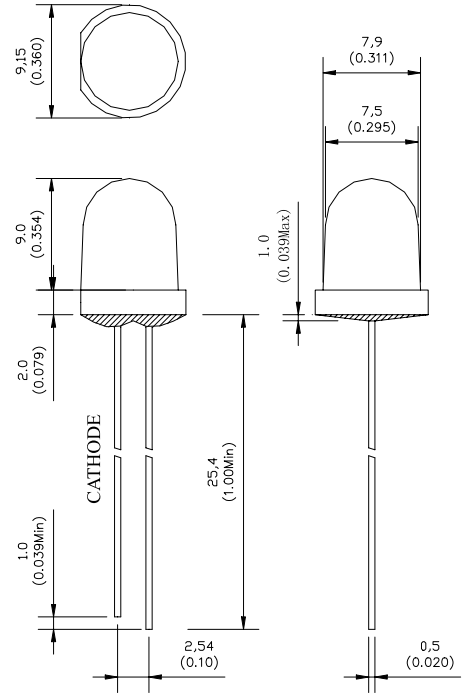


## GNL-8003xx (Φ 8mm ROUND TYPE) Ultra Brightness

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<br>(5 seconds,1.6mm from body ) Temperature | 300 | ±5   | °C   |



### Feature:

- 1.Small flange without stand-off
- 2.Long life-solid state reliability
- 3.Long lead length(25.4mm)
- 4.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-8003SRD | GaAlAs        | Super Red          | Red Diffused    | 660                  | 1.9         | 100              | 120   | 40°                |
| GNL-8003LRD | GaAlAs        | Super Red          | Red Diffused    | 660                  | 1.9         | 100              | 150   | 40°                |
| GNL-8003SRT | GaAlAs        | Super Red          | Red Transparent | 660                  | 1.9         | 250              | 400   | 20°                |
| GNL-8003SRC | GaAlAs        | Super Red          | Water Clear     | 660                  | 1.9         | 250              | 400   | 20°                |
| GNL-8003LRC | GaAlAs        | Super Red          | Water Clear     | 660                  | 1.9         | 600              | 800   | 20°                |
| GNL-8003URC | GaAlAs        | Super Red          | Water Clear     | 660                  | 1.9         | 1200             | 1500  | 20°                |
| GNL-8003UEC | AlGaInP       | Super Orange       | Water Clear     | 625                  | 2.0         | 1500             | 2000  | 20°                |
| GNL-8003UGC | AlGaInP       | Yellow Green       | Water Clear     | 572                  | 2.0         | 1200             | 1400  | 20°                |
| GNL-8003UYC | AlGaInP       | Super Yellow       | Water Clear     | 585                  | 2.0         | 1000             | 1500  | 20°                |
| GNL-8003BC  | InGaN         | Super Blue         | Water Clear     | 470                  | 3.5         | 2500             | 3000  | 20°                |
| GNL-8003UBC | InGaN         | Ultra Super Blue   | Water Clear     | 470                  | 3.5         | 4000             | 5000  | 20°                |
| GNL-8003BGC | InGaN         | Super Bluish Green | Water Clear     | 505                  | 3.5         | 8000             | 10000 | 20°                |
| GNL-8003PGC | InGaN         | Super Pure Green   | Water Clear     | 525                  | 3.5         | 10000            | 12000 | 20°                |
| GNL-8003UWC | InGaN         | Ultra Super White  | Water Clear     | 5500K-7000K          | 3.5         | 7000             | 8000  | 20°                |
| GNL-8003VC  | InGaN         | Super Violet       | Water Clear     | 400                  | 3.5         | 100              | 300   | 20°                |