G-NOR ELECTRONICS CO.,LTD.

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| GNL-8003xx (Φ8mm ROUND TYPE)Ultra Brightness ABSOLUTE MAXIMUM RATING:(Ta=25℃)

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| 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 | ℃ |
| Storage Temperature  | -40 | +100 | ℃ |
| Solder Dip(5 seconds,1.6mm from body ) Temperature  | 300 | ±5 | ℃ |

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| **Feature:**  **Description:**  1.Small flange without stand-off 1.The shape of this series is round 2.Long life-solid state reliability 2.General application is for indication,illumination,etc. 3.Long lead length(25.4mm) 3.These LED lamps are available with a choice of defferent 4.Versatile mounting on P.C. board or panel colors,light intensities,epoxy colors,etc.  |
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| Part Number | **EMITTED COLOR** | **Lens Color** | **Peak Wavelength****(nm)** | **Vf****(v)****Typ.** | **IV (If=20mA) mcd** | **View Angle****2θ1/2** |
| **Min.** | **Typ.** |
| GNL-8003SRD | GaAlAs | Super Red | Red Diffused | 660 | 1.9 | 50 | 100 | 60° |
| GNL-8003LRD | GaAlAs | Super Red | Red Diffused | 660 | 1.9 | 200 | 400 | 60° |
| GNL-8003SRT | GaAlAs | Super Red | Red Transparent | 660 | 1.9 | 250 | 400 | 22° |
| GNL-8003SRC | GaAlAs | Super Red | Water Clear | 660 | 1.9 | 250 | 400 | 22° |
| GNL-8003LRC | GaAlAs | Super Red | Water Clear | 660 | 1.9 | 600 | 800 | 22° |
| GNL-8003URC | GaAlAs | Super Red | Water Clear | 660 | 1.9 | 1200 | 1500 | 22° |
| GNL-8003UEC | AlGaInP | Super Orange Red | Water Clear | 625 | 2.0 | 1500 | 2000 | 22° |
| GNL-8003HRC | AlGaInP | Super Orange Red | Water Clear | 640 | 2.0 | 1200 | 1800 | 22° |
| GNL-8003UEC-TL | AlGaInP | Super Orange Red | Water Clear | 625 | 2.0 | 4000 | 5000 | 22° |
| GNL-8003UYC | AlGaInP | Super amber | Water Clear | 585 | 2.0 | 1500 | 2000 | 22° |
| GNL-8003UYC-TL | AlGaInP | Super amber | Water Clear | 585 | 2.0 | 4000 | 5000 | 22° |
| GNL-8003UBC | InGaN | Ultra Super Blue | Water Clear | 470 | 3.5 | 1500 | 2000 | 22° |
| GNL-8003UBD-TL | InGaN | Ultra Super Blue | Blue Diffused | 470 | 3.5 | 400 | 800 | 60° |
| GNL-8003BC-1 | InGaN | Super Blue | Water Clear | 470 | 3.5 | 1000 | 1800 | 22° |
| GNL-8003PGC | InGaN | Super Pure Green | Water Clear | 525 | 3.5 | 5000 | 7000 | 22° |
| GNL-8003UWC | InGaN | Ultra Super White | Water Clear | 5500K-7000K | 3.5 | 4000 | 5000 | 22° |
| GNL-8003VC | InGaN | Super Violet | Water Clear | 400 | 3.5 | 100 | 300 | 22° |

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