

| 5.0mm HIGH INTENSITY LED LAMPS  |   |         |             | LVX3333/HO Series                   |  |                             |     |                                  |        |   |      |        |
|---|---|---------|-------------|-------------------------------------|--|-----------------------------|-----|----------------------------------|--------|---|------|--------|
| Package dimensions  |   |         |             |                                     | Typical radiation                        |                             |     |                                  |        |   |      |        |
|   |   |         |             |                                     |  |                             |     |                                  |        |   |      |        |
| note:1. all dimension are in millimeter tolerance is $\pm 0.25\text{mm}$<br>2. protruded resin under flange is 1.5mm max                |   |         |             |                                     |  |                             |     |                                  |        |   |      |        |
| <b>• Part selection and electro-optical characteristics ( ratings @ Ta=25<sup>0</sup>c)</b>   |   |         |             |                                     |  |                             |     |                                  |        |   |      |        |
| PART NO   | MATERIAL                                  | COLOUR  |             | peak wave length<br>$\lambda_{Pnm}$ | spectral halfwidth<br>$\Delta\lambda$ nm | forward voltage<br>@20mA(v) |     | luminous intensity<br>@20mA(mcd) |        | viewing angle<br>$2\theta$ 1/2<br>(deg) |      |        |
|   |   | Emitted | Lens        |                                     |  | Min                         | Max | Min                              | Max    |   |      |        |
| LHRF3333/HO   | AlGaInP                                   | Red     | Water Clear | 630                                 | 20                                       | 1.5                         | 2.4 | 450                              | 2,000  | 38                                      |      |        |
| LHR3333/HO  | GaAlAs                                    | Red     | Water Clear | 660                                 | 20                                       | 1.5                         | 2.4 | 450                              | 1,500  | 38                                      |      |        |
| LUR3333/HO  | GaAlAs                                    | Red     | Water Clear | 660                                 | 20                                       | 1.5                         | 2.4 | 900                              | 3,400  | 38                                      |      |        |
| LURF3333/HO   | AlGaInP                                   | Red     | Water Clear | 630                                 | 20                                       | 1.5                         | 2.4 | 900                              | 5,000  | 38                                      |      |        |
| LVG3333/HO  | GaP                                       | Green   | Water Clear | 565                                 | 30                                       | 1.7                         | 2.8 | 220                              | 900    | 38                                      |      |        |
| LUG3333/HO  | AlGaInP                                   | Green   | Water Clear | 574                                 | 20                                       | 1.7                         | 2.8 | 500                              | 1,800  | 38                                      |      |        |
| LHY3333/HO  | AlGaInP                                   | Yellow  | Water Clear | 595                                 | 15                                       | 1.7                         | 2.8 | 450                              | 4,000  | 38                                      |      |        |
| LUY3333/HO  | AlGaInP                                   | Yellow  | Water Clear | 595                                 | 15                                       | 1.7                         | 2.8 | 900                              | 5,000  | 38                                      |      |        |
| LUYS3333/HO   | AlGaInP                                   | Yellow  | Water Clear | 589                                 | 15                                       | 1.7                         | 2.8 | 900                              | 5,000  | 38                                      |      |        |
| LHE3333/HO  | AlGaInP                                   | Orange  | Water Clear | 620                                 | 17                                       | 1.7                         | 2.8 | 450                              | 4,000  | 38                                      |      |        |
| LUE3333/HO  | AlGaInP                                   | Orange  | Water Clear | 620                                 | 17                                       | 1.7                         | 2.8 | 900                              | 5,000  | 38                                      |      |        |
| <b>• Absolute maximum ratings (Ta=25<sup>0</sup>c)</b>  |   |         |             |                                     |  |                             |     |                                  |        |   |      |        |
| PARAMETER   | RED                                       |         |             | GREEN                               |  | YELLOW                      |     |                                  | ORANGE |   | UNIT | REMARK |
|   | HRF                                       | HR      | UR          | VG                                  | UG                                       | VY                          | HY  | UY                               | HE     | UE                                      |      |        |
| forward current   | 40  | 40      | 40          | 30                                  | 30                                       | 20                          | 30  | 50                               | 30     | 50                                      | mA   |        |
| peak current duty<br>1/10 @1khz   | 200                                       | 150     | 150         | 160                                 | 160                                      | 80                          | 150 | 160                              | 150    | 150                                     | mA   |        |
| power dissipation   | 80  |         |             | 100                                 |  | 100                         |     |                                  | 100    |   | mW   |        |
| reverse current @5v   | 10  |         |             | 10                                  |  | 10                          |     |                                  | 10     |   | uA   |        |
| operating temperature   | -40 <sup>0</sup> C TO +85 <sup>0</sup> C  |         |             |                                     |  |                             |     |                                  |        |   |      |        |
| storage temperature   | -40 <sup>0</sup> C TO +100 <sup>0</sup> C |         |             |                                     |  |                             |     |                                  |        |   |      |        |
| lead soldering temperature 260 <sup>0</sup> C for 5 seconds (2.0mm from body)<br>Specifications may be subject to change without notice |   |         |             |                                     |  |                             |     |                                  |        |   |      |        |
| <b>LVX3333/HO</b>   |   |         |             |                                     |  |                             |     |                                  |        | <b>08/02</b>                            |      |        |