



LED DISPLAYS:ELM-2388A/B SERIES

ELECTRICAL AND OPTICAL CHARACTERISTICS (Ta=25°C)

| Part No.    | Emittd Color | PeakWave Length | Epoxy Color | Surface Color | Common Electrode | $\Delta\lambda$ (nm) | Pd (mW) | If (mA) | Peak (mA) | Vf(V) |     | IV(mcd) |     |
|-------------|--------------|-----------------|-------------|---------------|------------------|----------------------|---------|---------|-----------|-------|-----|---------|-----|
|             |              |                 |             |               |                  |                      |         |         |           | Min   | Max | Min     | Max |
| ELM-2388AS  | Red          | 620-630         | White       | Black         | Cathode          | 10                   | 35      | 20      | 60        | 1.8   | 2.0 | 82      | 92  |
| ELM-2388AO  | Orange       | 600-610         | White       | Black         | Cathode          | 10                   | 35      | 20      | 60        | 1.8   | 2.0 | 85      | 95  |
| ELM-2388AY  | Yellow       | 585-595         | White       | Black         | Cathode          | 10                   | 35      | 20      | 60        | 1.8   | 2.0 | 88      | 98  |
| ELM-2388AG  | Olivine      | 565-575         | White       | Black         | Cathode          | 10                   | 35      | 20      | 60        | 1.8   | 2.0 | 10      | 20  |
| ELM-2388AGG | Emerald      | 515-525         | White       | Black         | Cathode          | 10                   | 55      | 20      | 60        | 2.6   | 2.8 | 215     | 225 |
| ELM-2388AB  | Blue         | 460-470         | White       | Black         | Cathode          | 10                   | 55      | 20      | 60        | 2.6   | 2.8 | 15      | 25  |
| ELM-2388AW  | White        | -               | -           | Black         | Cathode          | -                    | 55      | 20      | 60        | 2.6   | 2.8 | -       | -   |
| ELM-2388BS  | Red          | 620-630         | White       | Black         | Anode            | 10                   | 35      | 20      | 60        | 1.8   | 2.0 | 82      | 92  |
| ELM-2388BO  | Orange       | 600-610         | White       | Black         | Anode            | 10                   | 35      | 20      | 60        | 1.8   | 2.0 | 85      | 95  |
| ELM-2388BY  | Yellow       | 585-595         | White       | Black         | Anode            | 10                   | 35      | 20      | 60        | 1.8   | 2.0 | 88      | 98  |
| ELM-2388BG  | Olivine      | 565-575         | White       | Black         | Anode            | 10                   | 35      | 20      | 60        | 1.8   | 2.0 | 10      | 20  |
| ELM-2388BGG | Emerald      | 515-525         | White       | Black         | Anode            | 10                   | 55      | 20      | 60        | 2.6   | 2.8 | 215     | 225 |
| ELM-2388BB  | Blue         | 460-470         | White       | Black         | Anode            | 10                   | 55      | 20      | 60        | 2.6   | 2.8 | 15      | 25  |
| ELM-2388BW  | White        | -               | -           | Black         | Anode            | -                    | 55      | 20      | 60        | 2.6   | 2.8 | -       | -   |

ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

| ReverseVoltage | ReverseCurrent (VR=5V) | OperatingTemperature Range | StorageTemperature Range | Lead Soldering Temperature |
|----------------|------------------------|----------------------------|--------------------------|----------------------------|
| 5V             | 20 $\mu$ A             | -35°C~+80°C                | -45°C~+80°C              | 260°C For 3 Seconds        |

PACKAGE DIMENSION (Tolerance :  $\pm 0.2$ mm)

