



## Optical-Electrical Characteristics

@  $T_A = 25^\circ\text{C}$

| Parameter          | Test Conditions     | Symbol          | Min. | Typ .      | Max. | Unit          |
|--------------------|---------------------|-----------------|------|------------|------|---------------|
| Radiant Intensity  | $I_F = 20\text{mA}$ | $I_e$           |      | 5          | -    | mW/sr         |
| Forward Voltage    | $I_F = 50\text{mA}$ | $V_F$           | -    | 1.30       | 1.5  | V             |
| Reverse Current    | $V_R = 5\text{V}$   | $I_R$           | -    | -          | 100  | $\mu\text{A}$ |
| Peak Wavelength    | $I_F = 20\text{mA}$ | $\lambda_p$     | -    | 940        | -    | nm            |
| Spectral Bandwidth | $I_F = 20\text{mA}$ | $\Delta\lambda$ | -    | 50         | -    | nm            |
| View Angle         | $I_F = 20\text{mA}$ | $2\theta_{1/2}$ | -    | $16^\circ$ | -    | deg.          |

## Typical Optical-Electrical Characteristic Curves

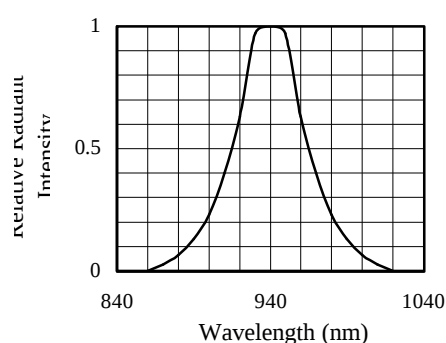


FIG.1 SPECTRAL DISTRIBUTION

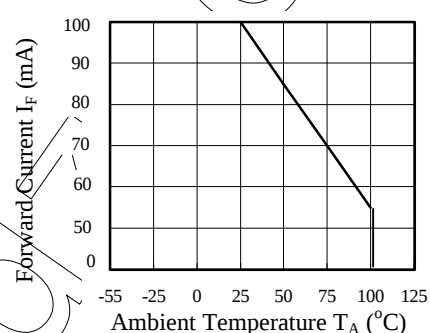


FIG.2 FORWARD CURRENT VS. AMBIENT TEMPERATURE

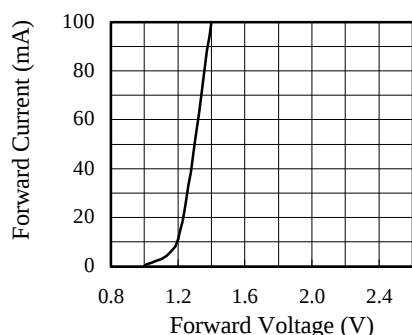


FIG.3 FORWARD CURRENT VS. FORWARD VOLTAGE

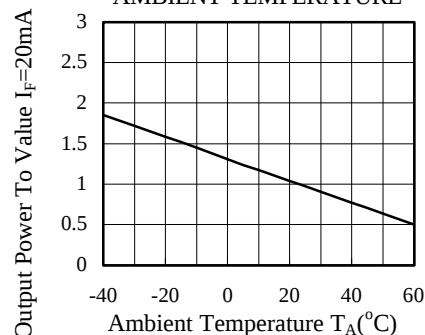


FIG.4 RELATIVE RADIANT INTENSITY VS. AMBIENT TEMPERATURE

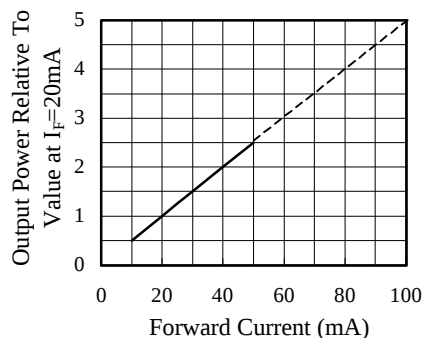


FIG.5 RELATIVE RADIANT INTENSITY VS. FORWARD CURRENT

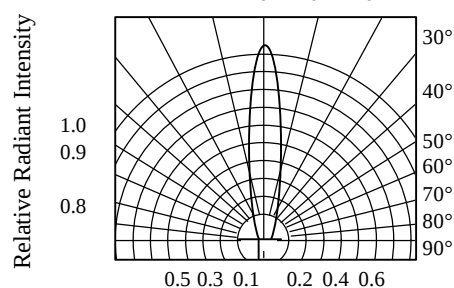


FIG.6 RADIATION DIAGRAM