

The **OHE940CC** is a high-power GaAs IRED mounted in durable, hermetically sealed T0-18 metal can package, which provides years of reliable performance even under demanding conditions such as use outdoor.

### FEATURES

- Narrow beam angle
- Durable
- High reliability in demanding environments

### APPLICATIONS

- Optical emitters
- Optical switches
- Smoke sensors



### ELECTRO-OPTICAL CHARACTERISTICS

( Ta=25℃ )

| Item                     | Symbol | Cond.    | Min. | Typ. | Max. | Unit  |
|--------------------------|--------|----------|------|------|------|-------|
| Forward voltage          | VF     | IF=100mA |      | 1.3  | 1.7  | V     |
| Reverse current          | IR     | VR=5v    |      |      | 10   | μA    |
| Capacitance              | CT     | f=1MHz   |      | 25   |      | pF    |
| Radiant intensity        | Po     | IF=100mA |      | 15.0 |      | mW/sr |
| Peak emission wavelength | λp     | IF=100mA |      | 940  |      | nm    |
| Spectral bandwidth 50%   | Δλ     | IF=100mA |      | 50   |      | nm    |
| Half angle               | Δθ     |          |      | ±9   |      | deg.  |

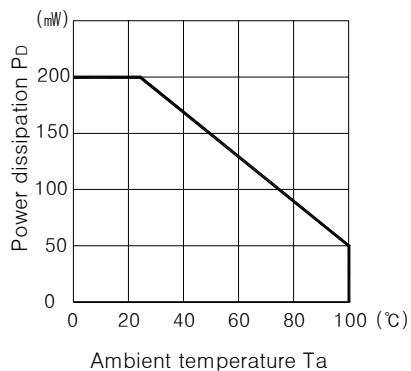
### MAXIMUM RATINGS

( Ta=25℃ )

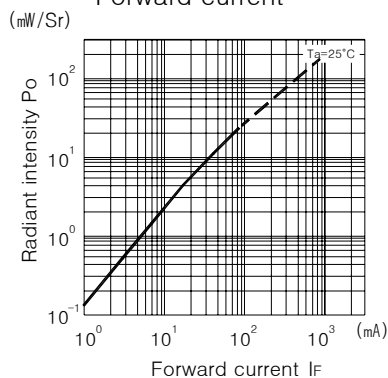
| Item                           | Symbol | Rating   | Unit |
|--------------------------------|--------|----------|------|
| Reverse voltage                | VR     | 5        | V    |
| Forward current                | IF     | 100      | mA   |
| Pulse forward current          | IFP    | 1        | A    |
| Power dissipation              | Pd     | 200      | mW   |
| Operating temp.                | Topr   | -40~+100 | ℃    |
| Storage temp.                  | Tstg   | -55~+125 | ℃    |
| Soldering temp. <sup>(1)</sup> | Tsol   | 260      | ℃    |

(1)For MAX.5seconds at the position of 2mm from the package

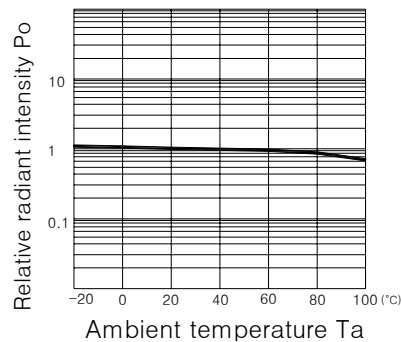
■ Power dissipation Vs Ambient temperature



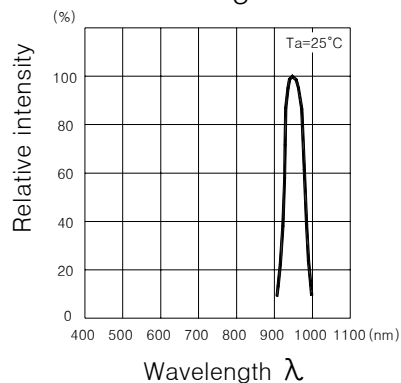
■ Radiant intensity Vs Forward current



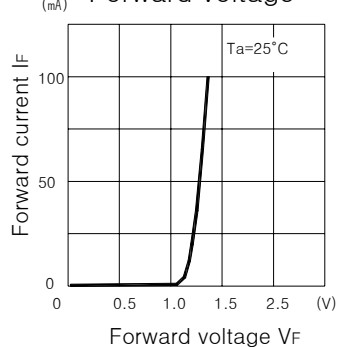
■ Relative radiant intensity Vs Ambient temperature



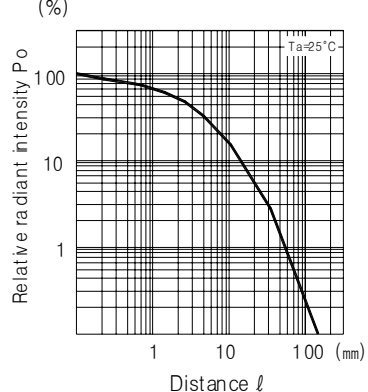
■ Relative intensity Vs Wavelength



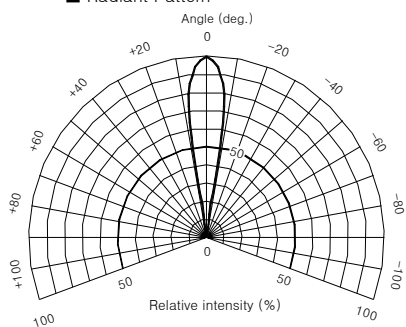
■ Forward current Vs Forward voltage



■ Relative radiant intensity Vs Distance



■ Radiant Pattern



■ DIMENSIONS (Unit:mm)

