



VISION OPTO - ELECTRONIC INDUSTRIES

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Chip Material: AlGaInP / GaAs

CODE = S GREEN(SG)

ABSOLUTE MAXIMUM RATINGS (Ta = 25 °C)

| PARAMETER | SYMBOL | MAXIMUM RATING | UNIT |
|---|-------------------|----------------|------|
| Power Dissipation | P _D | 62 | mW |
| Peak Forward Current (1/10 Duty Cycle, 0.1 Ms Pulse Width) | I _{PEAK} | 140 | mA |
| DC Forward Current | I _F | 25 | mA |
| Reverse Voltage | V _R | 5 | V |
| Operating Temperature Range | T _A | -40°C to +85°C | |
| Storage Temperature Range | T _{STG} | -40°C to +85°C | |
| Solder temperature 1/16 inch below seating plane for 3 seconds at 260°C | | | |

ELECTRICAL OPTICAL CHARACTER AND CURVES (Ta = 25°C)

| PARAMETER | SYMBOL | MIN | TYP | MAX | UNIT | LOCATION | TEST CONDITION |
|------------------------------|-------------------|------|------|------|------|----------|-------------------------------|
| Forward Voltage | V _F | - | 2.20 | 2.50 | V | Per Chip | I _F = 20mA |
| Luminous Intensity | I _v | 30.0 | 35.0 | 40.0 | mcd | Per Chip | I _F = 20mA |
| Peak Emission Wavelength | λ _p | - | 575 | - | nm | Per Chip | I _F = 20mA |
| Dominant Emission Wavelength | λ _d | 567 | 572 | 577 | nm | Per Chip | I _F = 20mA |
| Spectral Line Half-Width | Δλ _{1/2} | - | 20 | - | nm | Per Chip | I _F = 20mA |
| Capacitance | C | - | 15 | - | pF | Per Chip | V _F = 0V; f = 1MHz |
| Reverse Current | I _R | - | - | 10 | uA | Per Chip | V _R = 5V |

Note: 1. Luminous intensity tolerance is ±10%; 2. Dominant Emission Wavelength tolerance is ±5%.

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Typical Electro-Optical Characteristic Curve:

FIG. 1 Forward Current Vs. Forward Voltage

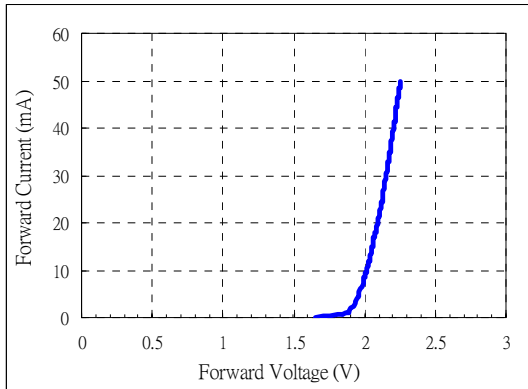


FIG. 2 Relative Intensity Vs. Forward Current

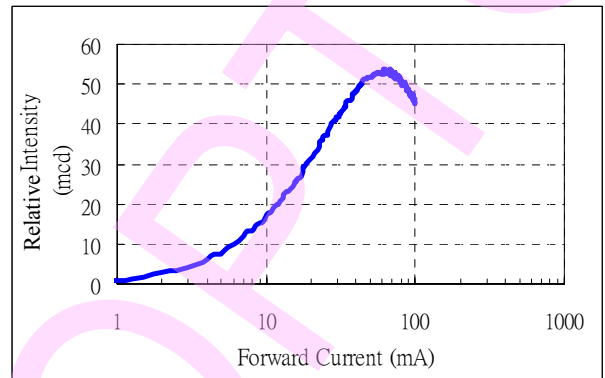


FIG. 3 Forward Voltage Vs. Temperature

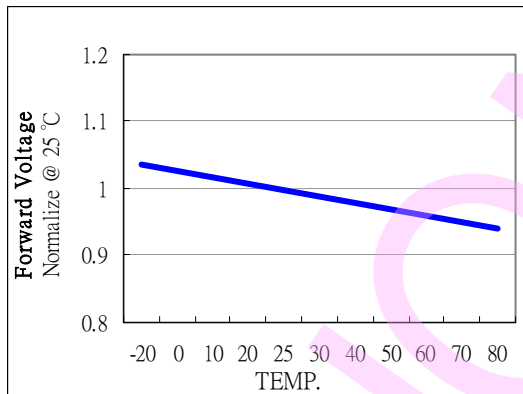


FIG. 4 Relative Intensity Vs. Temperature

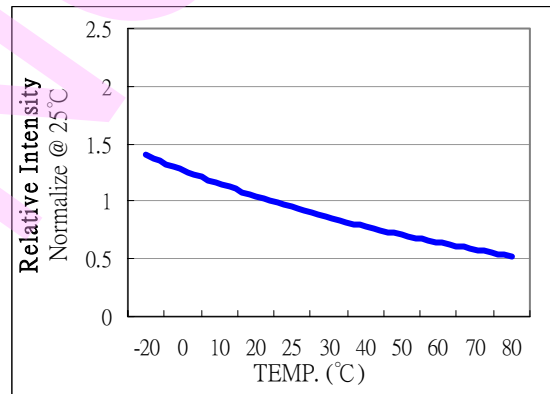


FIG. 5 Relative Intensity Vs. Wavelength

