



Electro Optical Components, Inc.

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830nm SLED

GS830-1mWF-14DIP-S



Features:

Wavelength: 830±10nm SLED

High stability 14DIL Package

Fiber and connector available for customer design

TEC and driver be integrated

Applications

Fiber Sensor

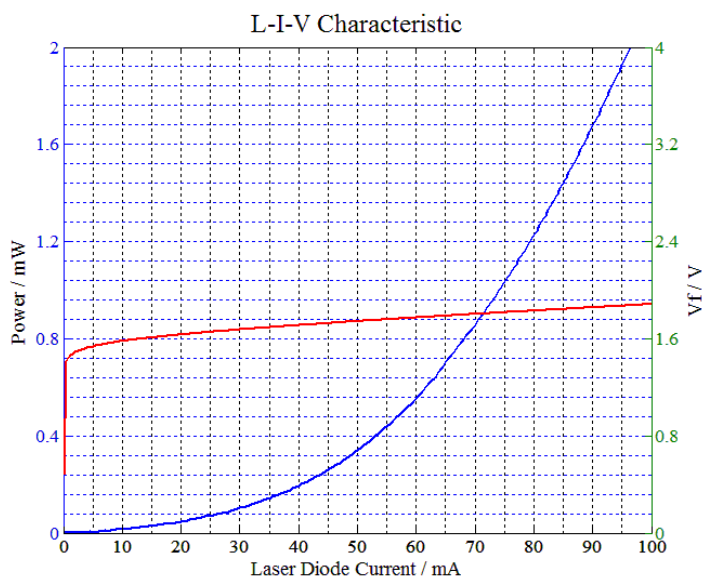
OCT

Smart Grid

Optical Measurement

830nm SLED Characteristics (25 °C)

Driver Module



Typical Device Performance (25°C)

| Parameter | | Symbol | Typical Value | Unit |
|------------|-------------------------------|-----------------|--------------------|---------------|
| | | | GS830-1mWF-14DIP-S | |
| Optical | CW Output Power and stability | P _{op} | >1 | mW |
| | | | ≤±0.03 | dB/8 hour |
| | Center Wavelength | λ _c | 830±10 | nm |
| | Spectral Width | Δλ | >30 | nm |
| Electrical | Operating Current | I _{op} | 120 | mA |
| | Operating Voltage | V _{op} | 1.9 | V |
| | PD Current | I _{mo} | - | uA |
| | TEC Max Current | I _t | 1.8 | A |
| | TEC Max Voltage | V _t | 3.2 | V |
| | Thermistor | R _t | 10±5%/3477 | (K Ω)/β(25°C) |
| Fiber | Fiber Type | - | Single Mode | - |
| | Fiber Tail Length | L | 0.3 | m |
| | Connector | - | ST, FC, SMA905 | - |

Other Parameters

| Parameter | Operating Temperature /°C | Operating Relative Humidity /% | Storage Temperature /°C | Storage Relative Humidity /% | Lead Soldering Temperature, 10s max/°C |
|-----------|---------------------------|--------------------------------|-------------------------|------------------------------|--|
| Min | 10 | - | -20 | - | - |
| Max | 40 | 75 | 70 | 90 | 250 |

Package Dimensions (mm)

| Pin | Function | Pin | Function |
|-----|-----------|-----|------------|
| 1 | TEC(+) | 8 | - |
| 2 | - | 9 | Laser(-) |
| 3 | - | 10 | Laser(+) |
| 4 | - | 11 | Thermistor |
| 5 | Laser (+) | 12 | Thermistor |
| 6 | - | 13 | - |
| 7 | - | 14 | TEC(-) |

