



## PLD850-5-MG

### Features

- MOCVD Pulsed Laser Diode
- Wavelength : 850 nm (Typ.)
- Peak Power : 5W
- Threshold Current : 150 mA ( Typ. )
- Package Style : TO-18 (5.6 mmØ)
- Casing: Negative - Cathode

### TEMPERATURE CHARACTERISTICS

| DESCRIPTION                | SYMBOL           | RATED VALUE |
|----------------------------|------------------|-------------|
| Operation Temperature (°C) | T <sub>op</sub>  | -30 to +70  |
| Storage Temperature (°C)   | T <sub>stg</sub> | -60 to +85  |

### OPTICAL AND ELECTRICAL CHARACTERISTICS ( Tc=25 °C ); Test condition: 50ns, 1kHz

| DESCRIPTION            | SYMBOL           | MIN. | TYPICAL  | MAX. |
|------------------------|------------------|------|----------|------|
| Lasing Wavelength (nm) | $\lambda_p$      | 835  | 850      | 865  |
| Emitting Area          | A <sub>e</sub>   | -    | 75 x 1um | -    |
| Peak Power (W)         | P <sub>o</sub>   | -    | -        | 5    |
| Threshold Current (mA) | I <sub>th</sub>  | 80   | 150      | 200  |
| Peak Current (A)       | I <sub>op</sub>  | -    | -        | 5    |
| Peak Voltage (V)       | V <sub>op</sub>  | -    | -        | 6    |
| Beam Divergence    (°) | $\theta_{  }$    | 8    | 10       | 11   |
| Beam Divergence ⊥ (°)  | $\theta_{\perp}$ | 30   | 40       | 50   |
| Duty Factor (%)        | DF               | ***  | 0.1      | ***  |

