

Dimensions (Unit:mm)

- FEATURES**
- Point-Source LED
  - Emitting Window Dia. φ150μm
  - High-output Power

- APPLICATIONS**
- Optical Sensors
  - Optical Switches

## 1. ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

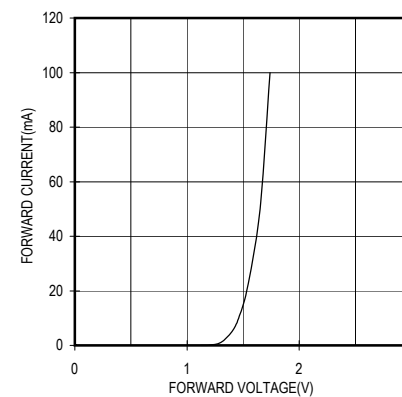
| ITEM                      | SYMBOL | RATINGS    | UNIT |
|---------------------------|--------|------------|------|
| Forward Current (DC)      | IF     | 100        | mA   |
| Forward Current (Pulse)*1 | IFP    | 0.8        | A    |
| Reverse Voltage           | VR     | 5          | V    |
| Power Dissipation         | PD     | 190        | mW   |
| Operating Temp.           | Topr   | -20 TO 85  | °C   |
| Storage Temp.             | Tstg   | -30 TO 100 | °C   |

\*1: Tw=10μs, T=10ms

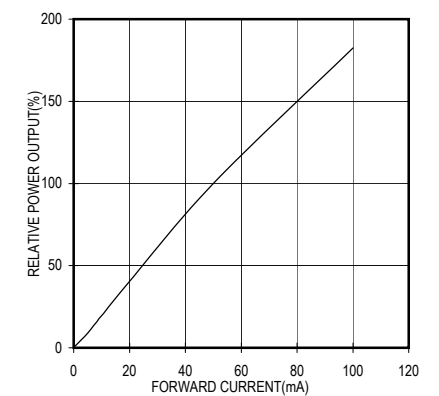
## 2. ELECTRICAL & OPTICAL CHARACTERISTICS (Ta=25°C)

| ITEM                      | SYMBOL | CONDITIONS | MIN | TYP | MAX | UNIT |
|---------------------------|--------|------------|-----|-----|-----|------|
| Power Output              | PO     | IF=50mA    | 1.6 | 3.0 |     | mW   |
| Forward Voltage           | VF     | IF=50mA    |     | 1.7 | 2.2 | V    |
| Reverse Current           | IR     | VR=5V      |     |     | 100 | μA   |
| Peak Wavelength           | λp     | IF=50mA    |     | 855 |     | nm   |
| Spectral Line Half Width  | Δλ     | IF=50mA    |     | 30  |     | nm   |
| Half Intensity Beam Angle | θ      | IF=50mA    |     | ±12 |     | deg. |

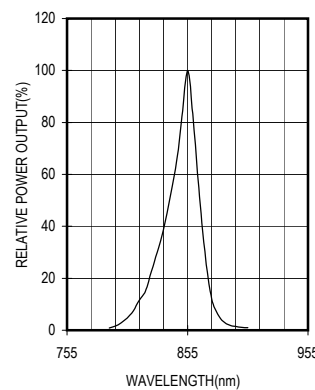
FORWARD I-V CHARACTERISTICS



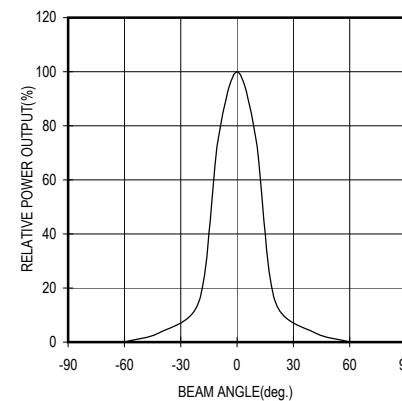
RELATIVE POWER vs FORWARD CURRENT



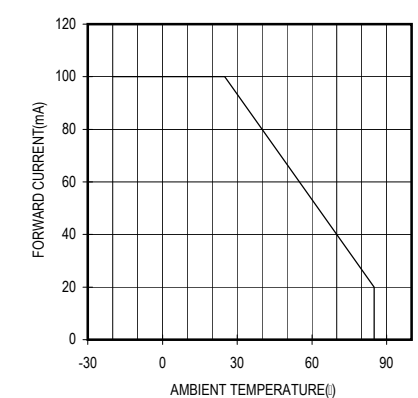
SPECTRAL OUTPUT



RADIATION PATTERN



THERMAL DERATING CURVE



To purchase this part contact  
Marktech Optoelectronics at  
**800.984.5337**

**Marktech**  
Optoelectronics  
www.marktechopto.com

