



# 13LED20

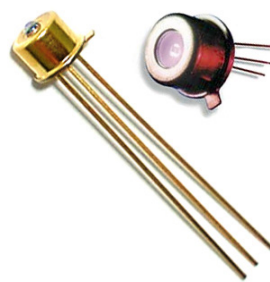
## 1300nm Surface Emitting LED

### FEATURES

- Planar Structure
- Dielectric Passivation
- 100% Purge Burn-in

### APPLICATIONS

- Optical Data Communications Systems
- E1 / T1 Communication Systems
- Analog Transmission Systems



13LED20-1xx  
TO can Package



13LED20-5xx  
FC Receptacle

### PRODUCT DESCRIPTION

The 13LED20 is a 1300nm surface emitting LED. It is intended for use in low cost, short haul multi-mode optical communication systems operating to 100MB/s and for use in optical test and measurement equipment.

The device can be assembled in a TO can or mounted in an SC, ST or FC receptacle. Custom packages are an option.

### ELECTRICAL CHARACTERISTICS

Table 1: Electrical Specifications

| PARAMETER                            | MIN  | TYP  | MAX  | UNIT |
|--------------------------------------|------|------|------|------|
| Total output power                   | -    | 1    | -    | mW   |
| Minimum coupled power <sup>(1)</sup> | 30   | -    | -    | μW   |
| Peak wavelength                      | 1260 | 1300 | 1340 | nm   |
| Spectral width                       | -    | 120  | -    | nm   |
| Rise / Fall time                     | -    | 6    | -    | ns   |

(1) Coupled to 62.5/125 fiber @ 100mA forward current

Table 2: Absolute Maximum Ratings

| PARAMETER                          | MIN | MAX  | UNIT |
|------------------------------------|-----|------|------|
| Forward Current                    | -   | 125  | mA   |
| Operating Case Temperature         | -40 | +85  | °C   |
| Storage Temperature                | -40 | +85  | °C   |
| Soldering temperature (10 seconds) | -   | +250 | °C   |

Stresses in excess of the absolute ratings may cause permanent damage. Functional operation is not implied under these conditions. Exposure to absolute ratings for extended periods of time may adversely affect reliability.

## ORDERING INFORMATION

| Part Number | Options                                                                                                        |
|-------------|----------------------------------------------------------------------------------------------------------------|
| 13LED20-1xx | Package: TO46<br>Number of pins: 2, 3<br>Cap: Window, lens. AR / Non-AR coated.<br>Cap plating: Gold or nickel |
| 13LED20-5xx | Number of pins: 2, 3<br>Connector Type: SC, ST or FC. Aligned for APC or UPC                                   |

Please contact Anadigics for the specific part number and pinout that suits your needs

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