

# ROITHNER LASERTECHNIK

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## LDS-1450-0600-3

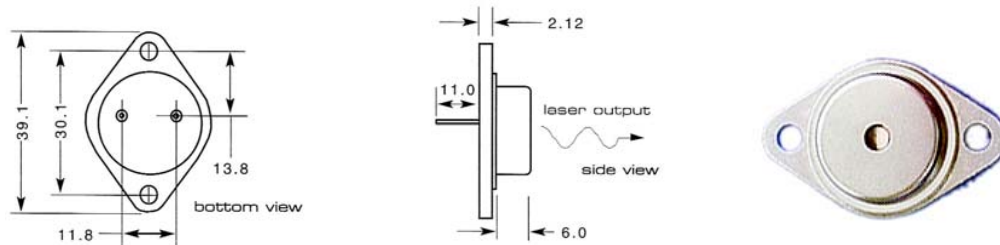
## TECHNICAL DATA

### High Power Infrared Laser Diode

Lasing wavelength: typ. 1450 nm

Optical cw power: **600 mW**

Package: **TO-3**



#### Absolute Maximum Ratings ( $T_a = 22^\circ\text{C}$ )

| CHARACTERISTIC             | SYMBOL    | RATING     | UNIT             |
|----------------------------|-----------|------------|------------------|
| Optical Output Power       | $P_o$     | 700        | mW               |
| Operation Case Temperature | $T_c$     | -20 .. +40 | $^\circ\text{C}$ |
| Storage Temperature        | $T_{STG}$ | -60 .. +70 | $^\circ\text{C}$ |

#### Optical-Electrical Characteristics ( $T_c = 22^\circ\text{C}$ )

| CHARACTERISTIC                     | RATING                        |
|------------------------------------|-------------------------------|
| CW Output Power                    | 600 mW                        |
| Central Wavelength                 | 1450 nm +/-10 nm              |
| Beam Divergence (FWHM)             | vertical: 45° horizontal: 15° |
| Wavelength Temperature Coefficient | 0.3 nm/ $^\circ\text{C}$      |
| Threshold Current                  | 0.9 A                         |
| Operating Current                  | 3 A                           |
| Operating Voltage                  | < 1.5 V                       |
| Package                            | TO-3                          |