





# AND116CR

## GaAlAs Red Light Emission T-1 3/4 Package (5 mm)

#### **Features**

- Double hetero structure die
- Peak wavelength (λp = 660 nm) high bright emission
- · All plastic mold type, milky diffused lens
- · Low drive current
- · Solid state reliability, long life
- · Excellent On-Off contrast ratio
- Fast response time, capable of pulse drive
- · High brightness for outdoor applications
- RoHS Compliant

#### **Maximum Ratings (T = 25°C)**

Characteristics	Symbol	Rating	Unit
Forward Current	I <sub>F</sub>	50	mA
Reverse Voltage	V <sub>R</sub>	4	V
Power Dissipation	P <sub>D</sub>	125	mW
Operating Temperature Range	T <sub>Opr</sub>	-20 to 85	°C
Storage Temperature Range	T <sub>Stg</sub>	-30 to 100	°C

### Electro-Optical Characteristics ( $T_a = 25$ °C)

Characteristics	Symbol	Test Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 20mA	_	1.75	3.0	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> = 4 V	_	_	100	μΑ
Luminous Intensity	I <sub>V</sub>	I <sub>F</sub> = 20mA	56	130	_	mcd
Peak Emission Wavelength	I <sub>P</sub>	I <sub>F</sub> = 20mA	_	660	_	nm
Spectral Line Half Width	Δλ	I <sub>F</sub> = 20mA	_	25	_	nm
Dominant Wavelength	λd	I <sub>F</sub> = 20mA	_	640	_	nm
Full Viewing Angle	θ	I <sub>V</sub> = 1/2 Peak	_	60	_	degree

#### Precaution

Please be careful of the following:

- Soldering temperature: 260°C max
  Soldering time: 3 sec. max
  - Soldering portion of lead: up to 2 mm from the body of the device.
- 2. The lead can be formed up to 5 mm from the body of the device without forming stress. Soldering should be performed after the lead forming.

Product specifications contained herein may be changed without prior notice.

It is therefore advisable to contact Purdy Electronics before proceeding with the design of equipment incorporating this product.



### **GaAlAs Red Light Emission**











