





AND190WOP

InGaAIP Orange Light Emission T-3 Package (10 mm)

Features

- New emission material (InGaAIP) orange LED
- Peak wavelength (λp = 620 nm) high bright emission
- All plastic mold type, clear colorless lens
- Low drive current, (forward current = 1 to 20 mA)
- Excellent On-Off contrast ratio
- Fast response time, capable of pulse operation
- High power luminous intensity
- Suitable for Outdoor Message Signboards

Maximum Ratings (T = 25°C)

Characteristics	Symbol	Rating	Unit
Forward Current	I _F	50	mA
Reverse Voltage	V _R	4	V
Power Dissipation	P _D	125	mW
Operating Temperature Range	T _{Opr}	-40 to 85	°C
Storage Temperature Range	T _{Sig}	-40 to 120	°C

Electro-Optical Characteristics (T = 25°C)

Characteristics	Symbol	Test Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V _F	I _F = 20 mA	_	2.0	2.4	V
Reverse Current	I _R	V _R = 4 V	_	-	50	μΑ
Luminous Intensity	I _V	I _F = 20 mA	10,000	18,000	-	mcd
Peak Emission Wavelength	l _P	I _F = 20 mA	_	620	-	nm
Spectral Line Half Width	Δλ	I _F = 20 mA	_	25	-	nm
Dominant Wavelength	λd	I _F = 20 mA	_	614	-	nm
Full Viewing Angle	θ	I _V = 1/2 Peak	_	4	-	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.



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