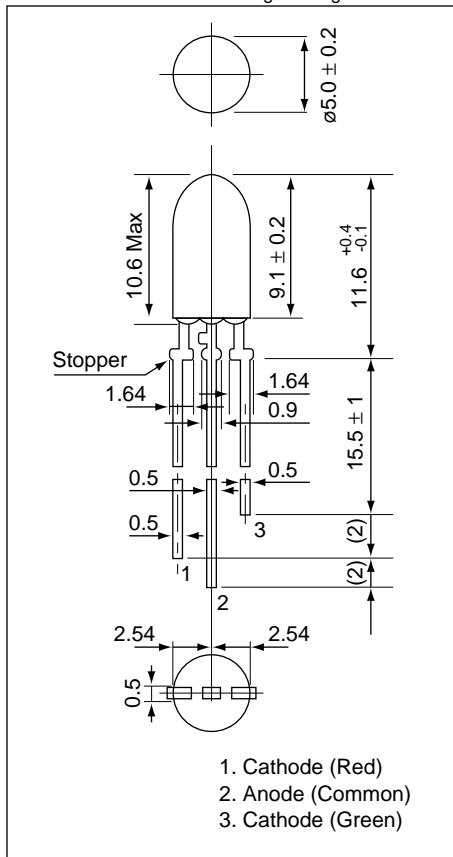




Weight: 0.3 g Unit: mm



AND178RAG

Dual Color High Brightness LED

T-1 3/4 Package (5 mm)

Features

- Dual color: Red (GaAlAs), Green (GaP)
- Common anode
- All plastic mold type, clear colorless lens
- Low drive current:
Recommended forward current:
Red: 3 to 5 mA (DC)
Green: 15 to 20 mA (DC)
- Fast response time, capable of pulse operation

Maximum Ratings (T = 25°C)

Characteristics	Symbol	Rating	Unit
Forward Current	I_F	40	mA
Reverse Voltage	V_R	4	V
Power Dissipation	P_D	120	mW
Operating Temperature Range	T_{Opr}	-30 to 85	°C
Storage Temperature Range	T_{Stg}	-40 to 100	°C

Electro-Optical Characteristics (T = 25°C)

Characteristics	Color	Symbol	Test Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	Red	V_F	$I_F = 20 \text{ mA}$	—	1.85	2.2	V
	Green			—	2.15	2.8	
Reverse Current	Red	I_R	$V_R = 4 \text{ V}$	—	—	100	μA
	Green			—	—	5	
Luminous Intensity	Red	I_V	$I_F = 20 \text{ mA}$	180	500	—	mcd
	Green			100	150	—	
Peak Emission Wavelength	Red	λ_P	$I_F = 20 \text{ mA}$	—	660	—	nm
	Green			—	567	—	
Spectral Line Half Width	Red	$\Delta\lambda$	$I_F = 20 \text{ mA}$	—	30	—	nm
	Green			—	25	—	
Dominant Wavelength	Red	λ_d	$I_F = 20 \text{ mA}$	—	640	—	nm
	Green			—	563	—	
Full Viewing Angle	Red	θ	$I_F = 20 \text{ mA}$	—	30	—	degree
	Green			—	30	—	

Precaution

Please be careful of the following:

1. 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.

