

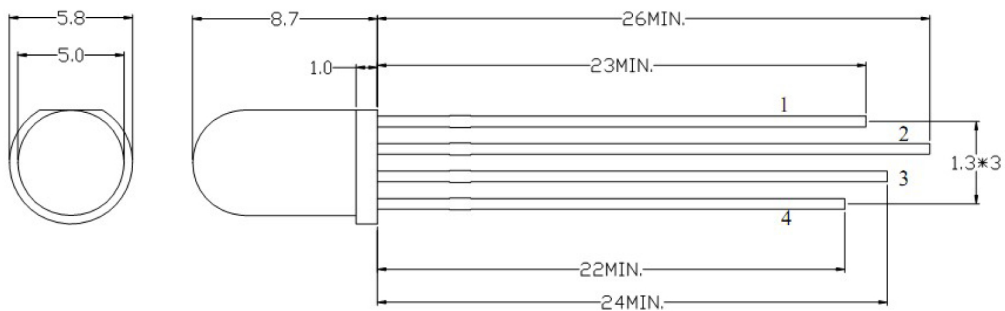
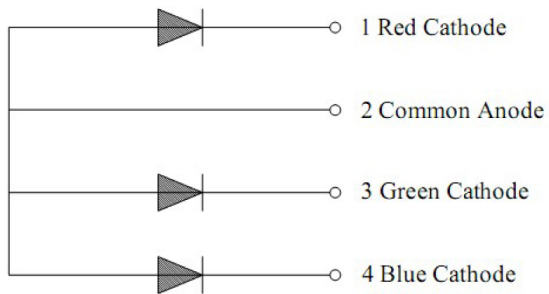
RGB LED

This full color super bright LED contains red green and blue LEDs housed in a single 5mm epoxy package, water clear common ANODE.

Package Dimentions

Notes:

1. All dimensions are in millimeters
2. Tolerance is $\pm 0.2\text{mm}$ unless otherwise noted.



FEATURES

- * 5.0mm DIA LED LAMP
- * LOW POWER CONSUMPTION.
- * I.C. COMPATIBLE.
- * THREE CHIPS ARE MATCHED FOR UNIFORM LIGHT OUTPUT.
- * LONG LIFE-SOLIDSTATE RELIABILITY.
- * FULL COLOR AND HIGH CONTRAST LAMP

CHIP MATERIALS

- * Dice Material : AlGaInP/GaAs & GaInN/GaN & GaInN/GaN
- * Light Color : FULL COLOR(SUPER RED & ULTRA PURE GREEN & ULTRA BLUE)
- * Lens Color : WATER CLEAR

ABSOLUTE MAXIMUM RATING:(Ta=25°C)

SYMBOL	DESCRIPTION	ULTRA RED	ULTRA PURE GREEN	ULTRA BLUE	UNIT
PAD	Power Dissipation Per Chip	80	130	120	mW
VR	Reverse Voltage Per Chip	5	5	5	V
IF	Average Forward Current Per Chip	30	30	30	mA
IPF	Peak Forward Current Per Chip (Duty=0.1,1KHZ)	60	120	70	mA
-	Derating Linear From 25°C Per Chip	0.4	0.4	0.4	mA/°C
Topr	Operating Temperature Range	-25°C to 85°C			
Tstg	Storage Temperature Range	-40°C to 85°C			
Lead Soldering Temperature { 1.6mm(0.063 inch) From Body } 260°C±5°C For 5 Seconds					

ELECTRO-OPTICAL CHARACTERISTICS:(Ta=25°C)

SYMBOL	PARAMETER	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
VF	Forward Voltage	IF=20mA	Ultra Red	2.0	2.6	V
			Ultra Pure Green	3.5	4.0	V
			Ultra Blue	3.5	4.0	V
IR	Reverse Current	VR=5V	Ultra Red		100	μA
			Ultra Pure Green		100	μA
			Ultra Blue		100	μA
λD	Dominant Wavelength	IF=20mA	Ultra Red	625		nm
			Ultra Pure Green	525		nm
			Ultra Blue	460		nm
Δλ	Spectral Line Half-Width	IF=20mA	Ultra Red	20		nm
			Ultra Pure Green	22		nm
			Ultra Blue	30		nm
2θ1/2	Half Intensity Angle	IF=20mA	Ultra Red	40		deg
			Ultra Pure Green	40		deg
			Ultra Blue	40		deg
Iv	Luminous Intensity	IF=20mA	Ultra Red	1500		2100mcd
			Ultra Pure Green	4200		5800mcd
			Ultra Blue	1100		1500mcd