

Specification

CUSTOMER NAME: _____

DIRECTOR: _____ TITLE: _____

CUSTOMER PART NO.: _____

PART NUMBER: **IE-1515RG-ST-CE** REVISION: **2.0**

ISSUE DATE: **2014/01/08** RETURN DATE: / /



Features

Features

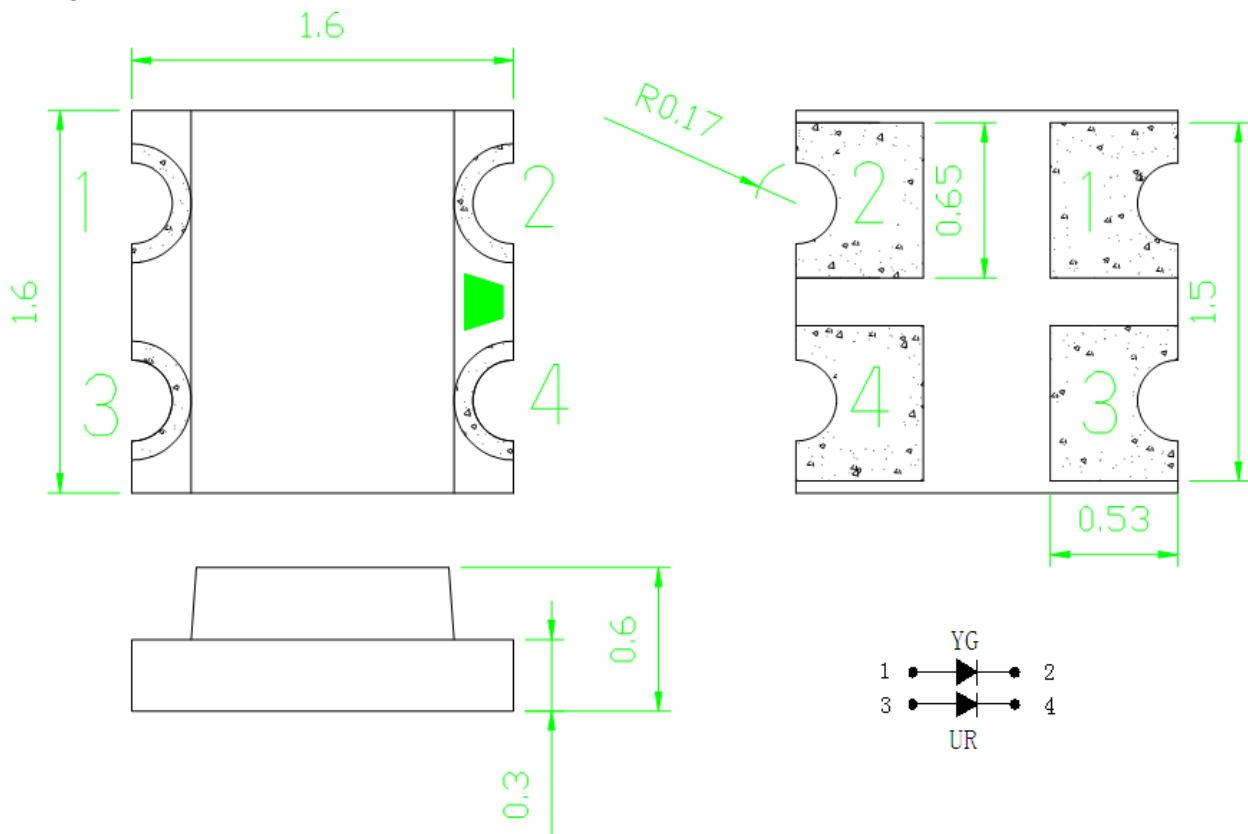
- _1.6mmx1.6mm SMT LED,0.60mm THICKNESS.
- _LOW POWER CONSUMPTION.
- _WIDE VIEWING ANGLE.
- _IDEAL FOR BACKLIGHT AND INDICATOR.
- _VARIOUS COLORS AND LENS TYPES AVAILABLE.
- _PACKAGE : 3000PCS / REEL.
- _RoHS COMPLIANT.

Description

The Green source color devices are made with AlGaInP on GaAs substrate Light Emitting Diode.

The Hyper Red source color devices are made with DH InGaAlP on GaAs substrate Light Emitting Diode

Package Dimensions



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.1 (0.004") unless otherwise noted.
3. Specifications are subject to change without notice.

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20mA		Viewing Angle
			Min.	Typ.	2 θ 1/2
IE-1515RG-ST-CE	Yellow green	WATER CLEAR	25	50	120
	RED (InGaAlP)		70	150	

Note:

1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at T_A=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	Yellow green Red			nm	IF=20mA
λ_D	Dominant Wavelength	Yellow green Red	568 620	572 625	nm	IF=20mA
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Yellow green Red	30 30		nm	IF=20mA
C	Capacitance	Yellow green Red	30 30		pF	VF=0V;f=1MHz
VF	Forward Voltage	Yellow green Red	1.9 1.9	2.1 2.1	V	IF=20mA
IR	Reverse Current	Yellow green Red		2 2	uA	VR = 7V

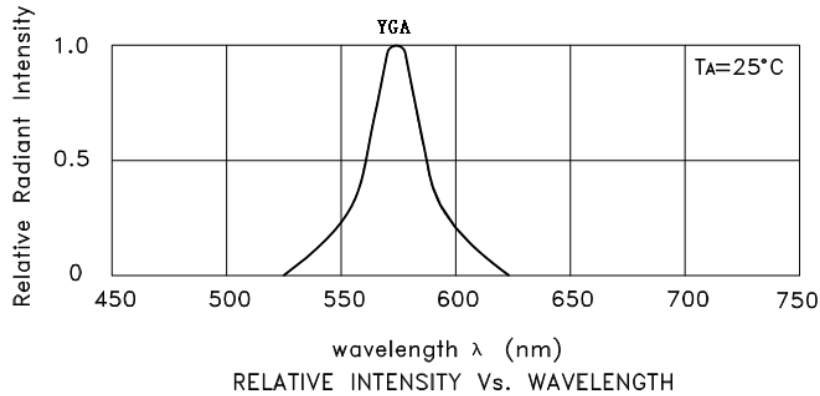
Absolute Maximum Ratings at T_A=25°C

Parameter	Yellow green	Red	Units
Power dissipation	75	75	mW
DC Forward Current	30	30	mA
Peak Forward Current [1]	80	80	mA
Reverse Voltage	5	5	V
Operating/Storage Temperature	-40°C To +85°C		

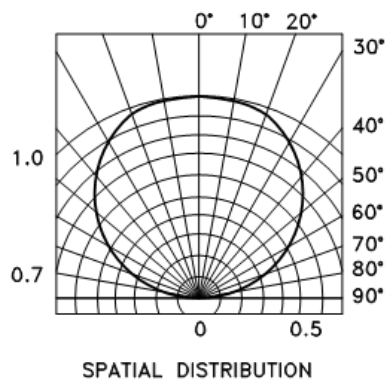
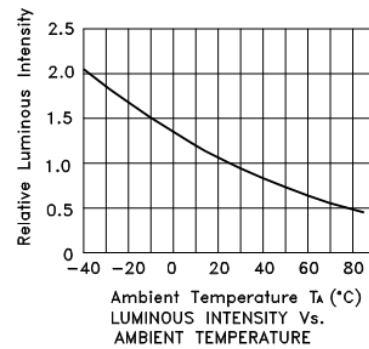
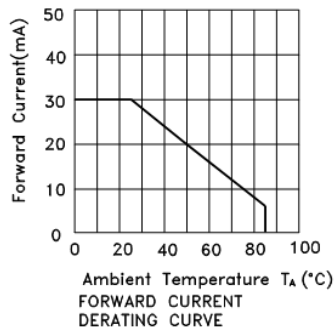
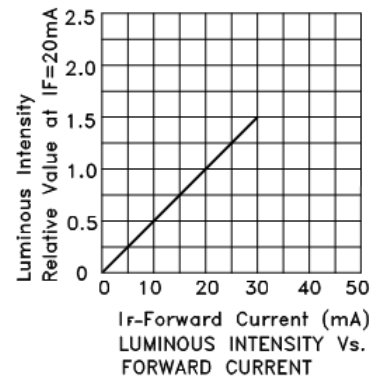
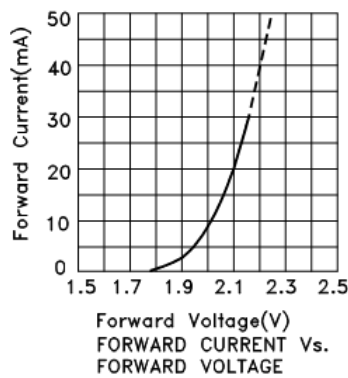
Note:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.

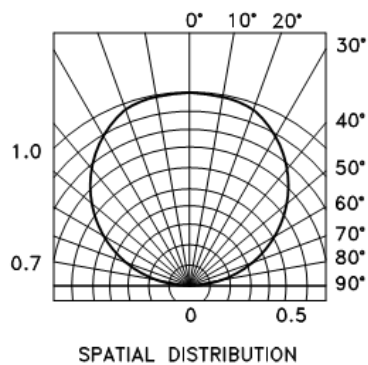
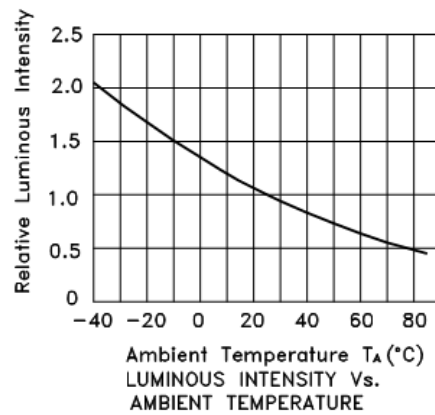
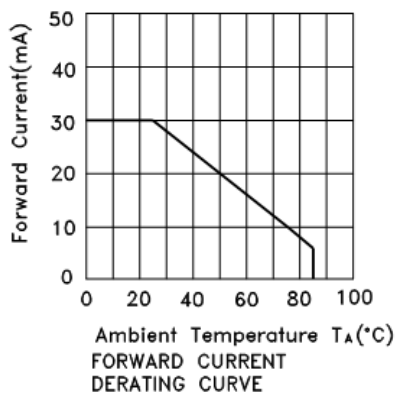
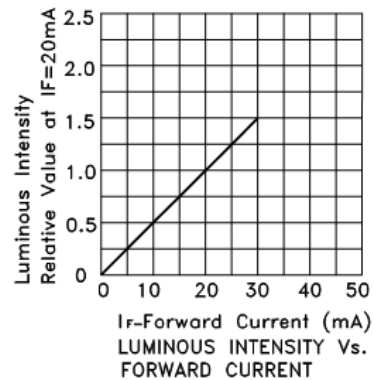
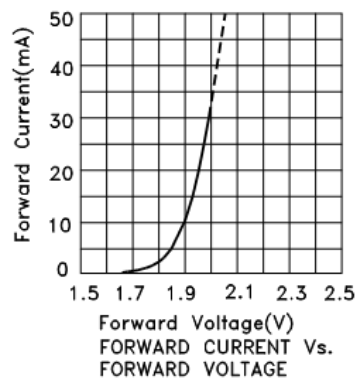
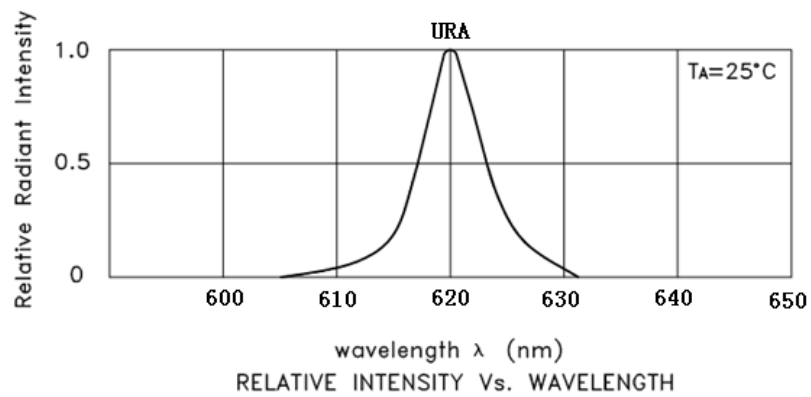
Yellow green



Yellow green

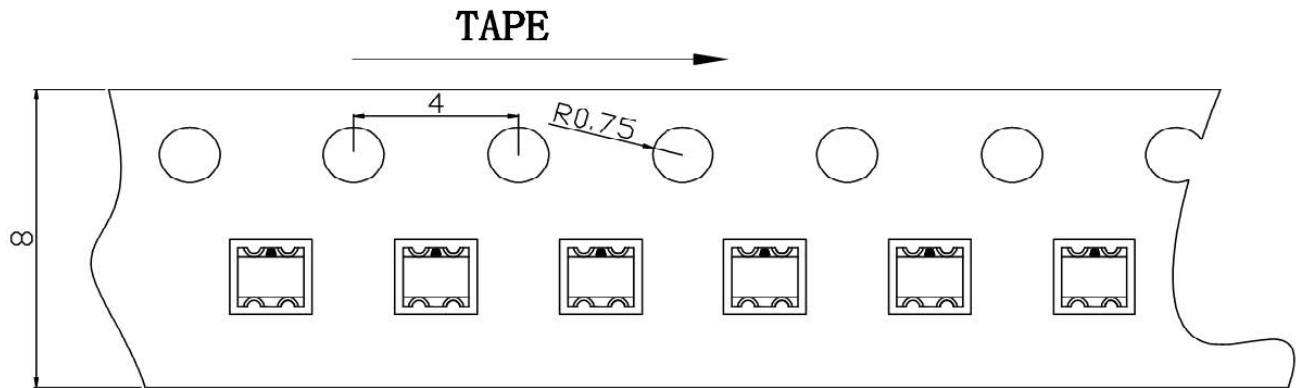


Red



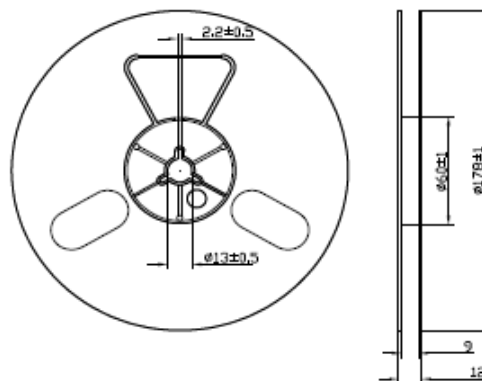
PACKAGING

The LEDs are packed in cardboard boxes after taping.

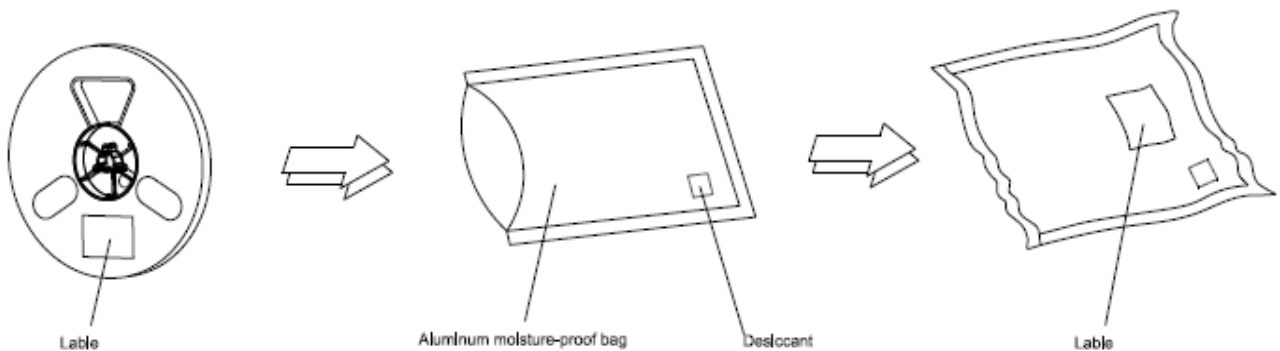


Package: 3000 pcs/reel

Reel Dimensions



Moisture Resistant Packaging



Note: The tolerances unless mentioned is $\pm 0.1\text{mm}$, Unit: mm