ML504I-HD/YG-C

Color - Red/Green

Type - White Diffused

5mm THROUGH HOLE LED

SELECTION GUIDE:

Model	Emitting light colors	Ontology color
ML504I-HD/YG-C	Red/Green	White Diffused

APPLICABLE SCOPE

This specification is applied to double dip LED products。

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

Parameter	Symbol	Rating	Unit
Power Dissipation	PD	120	mW
Forward Pulse Current	IFPM	100	mA
Forward Current	IFM	30	mA
Reverse Voltage	VR	5	V
Operating Temperature	Topr	-25～+85	℃
Storage Temperature	Tstg	-40～+85	℃
Soldering Heat (3s)	Tsol	260	℃

OPTOELECTRIC CHARACTERISTICS(Ta=25℃):

parameter	Symbol	Test Condition	Value						Unit
			Min		Typ		Max		
			Red	Green	Red	Green	Red	Green	
Forward Voltage	V_F	I_F=20mA	1.9	2.0	2.1	2.3	2.1	2.45	V
Luminous Intensity	Iv	I_F=20mA	12	15	20	25			mcd
Dominate Wave Length	λ_P	I_F=20mA	620	567	630	570	640	577	nm

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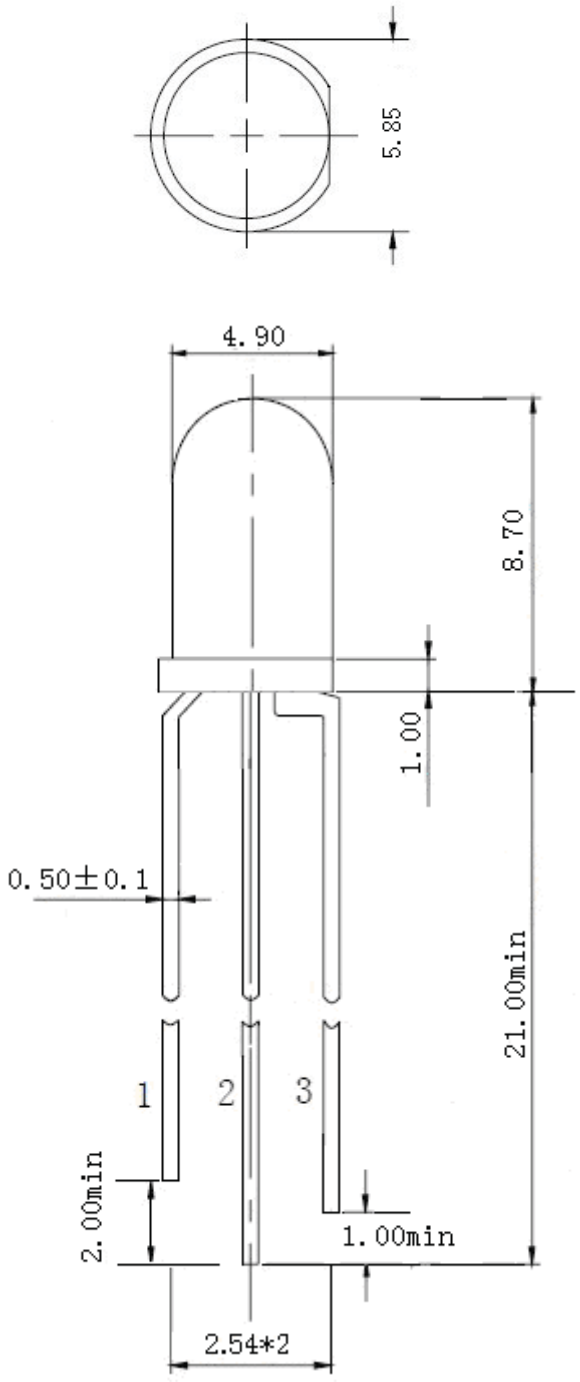
DIMENSION



1：Red Anode
2：Cathode
3：Green Anode
tolerance：±0.2mm

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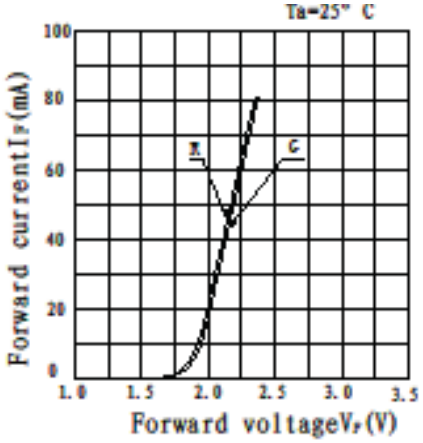
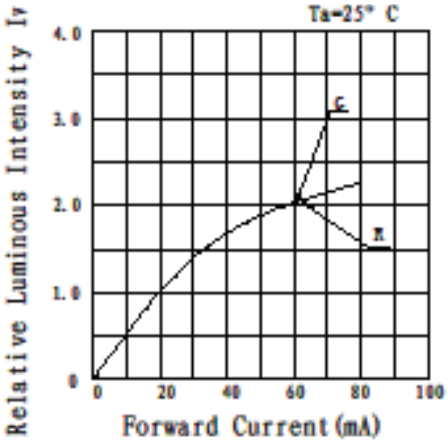
RATING AND CHARACTERISTIC CURVES ML504I-HD/YG-C

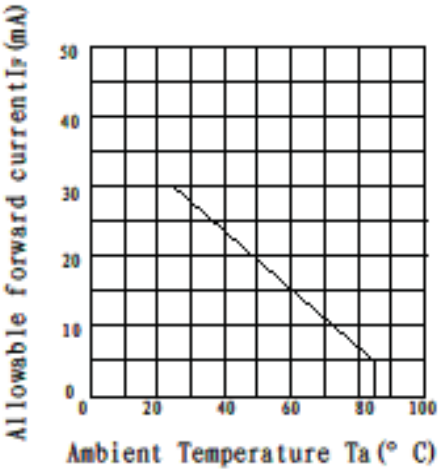
FORWARD CURRENT VS.
FORWARD VOLTAGE



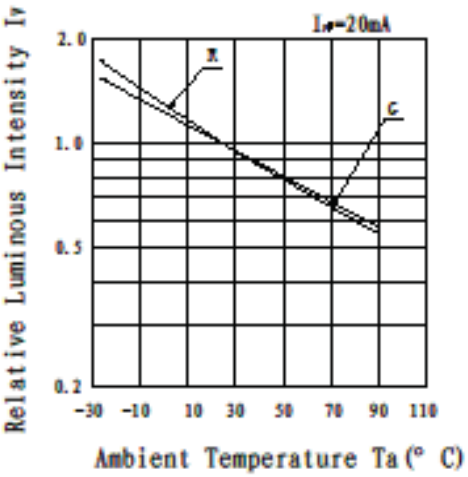
RELATIVE LUMINOUS INTENSITY
VS.FORWARD CURRENT



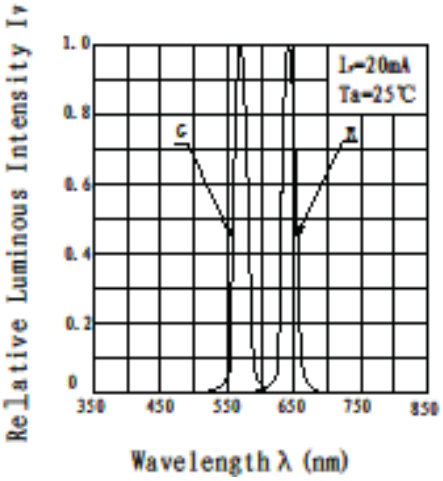
FORWARD CURRENT VS. AMBIENT TEMPERATURE



RELATIVE INTENSITY VS. AMBIENT TEMPERATURE



RELATIVE INTENSITY VS. WAVELENGTH



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5mm THROUGH HOLE LED

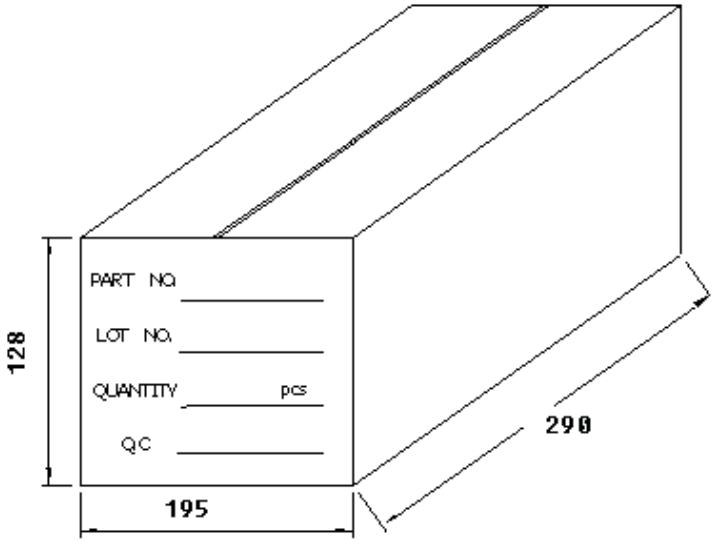
1.PACKING

1.1Internally packed with plastic bag anti-statically, 1000pcs/bag.

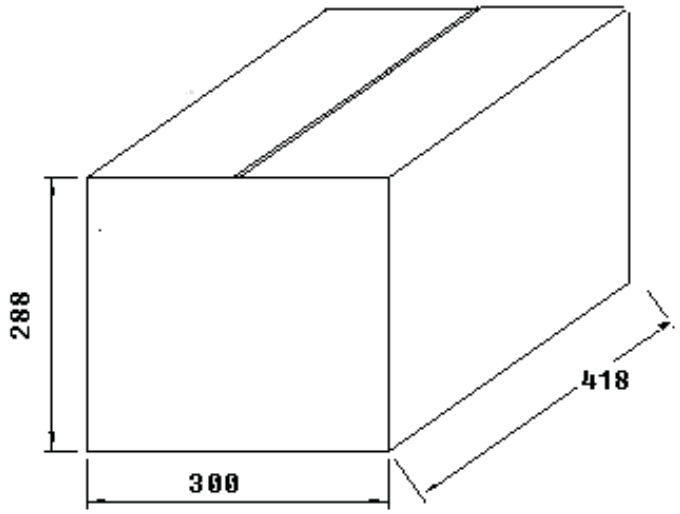
1.2 Internal Packed with white cartons, 6000pcs/carton

1.3 External Packed with brown cartons, 24000pcs/carton

Inside box：



Outside the box:



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2. PRECAUTIONS FOR USE

2.1 Forming

2.1.1Leads should be formed before soldering.

2.1.2 Do not form the leads with their bases near the epoxy body as a fulcrum.

2.1.3 Forming location should be up to 5mm from the epoxy body, if it has to be formed under 5mm（≥2mm）,
special fixture should be made. When forming, the lead frame near to epoxy body should be secured to lessen the
stress on the body in order to avoid LED open circuit and crack because of over stress.

2.2 Storage

2.2． 1 The LEDs should be stored at 30℃ or less and 70%RH or less after being shipped and the storage life limits are 3 months. If the LEDs are stored for 3 months or more, they can be stored for a year in a sealed container with a nitrogen atmosphere and moisture absorbent material.

2.2. 2 After the bag is opened, It is recommended that the LEDs be used as soon as possible.Mounted within 2days at factory conditions of ≤ 30℃ /60%RH。LED led frames are silver plated iron alloy. The silver surface may be affected by environments which contain corrosive gasses and so on. Please avoid conditions which may be cause the LED to corrodes, tarnish or discolor. This corrosion or discoloration may cause difficulty during soldering operations.

2.3 Installation

2.3.1 Installation on PCB does not apply physical stress to the leads when mounting LED lamps on PCB.