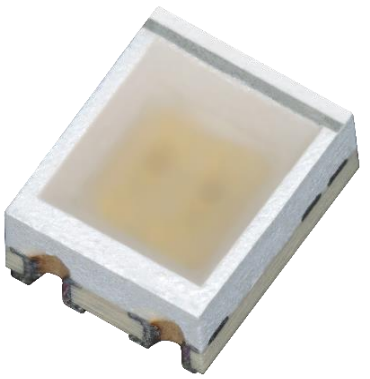
SML-020MYTT86

Data Sheet



【Features】

Size	(L×W×H)	·····	3.0x2.5x1.3		(mm)
Type		·····	Reflector type(Multi color)		
Light direction		·····	Top view		
Color		·····	Yellow Green / Yellow		
IV	(IF=20mA)	·····	Typ. 21	/ Typ. 10	(mcd)
VF	(IF=20mA)	·····	Typ. 2.2	/ Typ. 2.1	(V)
λp	(IF=20mA)	·····	Typ. 570	/ Typ. 585	(nm)
Viewing Angle 2θ1/2	X-Y	·····	100°	/ 100°	
	X'-Y'	·····	110°	/ 110°	
MSL		·····	Level 3		

【Applications】

Switch backlight

Indicator

Design

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[Product Overview]

Set type	:	SML-020MYTT86
Label type	:	SML-020MYTT86ML
		SML-020MYTT86NL
		SML-020MYTT86PL
		SML-020MYTT86MM
		SML-020MYTT86NM
		SML-020MYTT86PM

[Part No. Configuration]

SML	−	02	0	MY	T	T86	ML
①		②	③	④	⑤	⑥	⑦

① Series name
② Package shape
③ Type of element (Low luminous intensity type)
④ Color (M : Yellow green / Y : Yellow)
⑤ Resin color (T : Transparent colorless)
⑥ Packaging type (T86 : Cathode at sproket hole side [the top])
⑦ Luminous intensity rank

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1. CONSTRUCTION

Two-color Surface Mount Chip LEDs with reflector packed with transparent colorless resin.

Emitting material	Yellow Green	・・・・・・・・	GaP
	Yellow	・・・・・・・・	GaAsP

2. USAGE [*1]

Consumer ・ Industrial

3. DIMENSIONS

See Figure.1

4. ABSOLUTE MAXIMUM RATINGS [*2]

Power Dissipation	PD Yellow Green (Ta=25℃)	・・・・・・・・・	60mW
	PD Yellow (Ta=25℃)	・・・・・・・・・	60mW
Forward Current	IF Yellow Green (Ta=25℃)	・・・・・・・・・	25mA
	IF Yellow (Ta=25℃)	・・・・・・・・・	25mA
Peak Forward Current	IFP Yellow Green (Ta=25℃)	・・・・・・・・・	60mA [1)]
	IFP Yellow (Ta=25℃)	・・・・・・・・・	60mA [1)]
Reverse Voltage	VR (Ta=25℃)	・・・・・・・・・	4V
Operation Temperature	Topr	・・・・・・・・・	-30～+85℃
Storage Temperature	Tstg	・・・・・・・・・	-40～+85℃

1) Duty 1/5, Pulse width 1ms

※The above absolute maximum ratings are valid for the case of lighting a single color. When lighting two colors at the same time, the absolute maximum ratings is 50% of each color.

5. ELECTRO-OPTICAL CHARACTERISTICS (Ta=25ºC)

DESCRIPTION	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	VF Yellow Green	IF=20mA [2)]	-	2.2	2.8	V
	VF Yellow	IF=20mA [2)]	-	2.1	2.8	V
Reverse Current	IR Yellow Green	VR=4V	-	-	100	μA
	IR Yellow	VR=4V	-	-	100	μA
Luminous Intensity	IV Yellow Green	IF=20mA [3)]	9.0	21	45	mcd
	IV Yellow	IF=20mA [3)]	5.6	10	18	mcd
Peak Wavelength	λp Yellow Green	IF=20mA [3)]	-	570	-	nm
	λp Yellow	IF=20mA [3)]	-	585	-	nm

2) Lighting time : 1msec 3) Lighting time : 10msec

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6. LUMINOUS CLASSIFICATION [*3] (Ta=25℃, IF=20mA)

SYMBOL	Color	LUMINOUS CLASSIFICATION RANGE			
"ML"	Yellow Green	9.0	~	18	mcd
	Yellow	5.6	~	11	mcd
"NL"	Yellow Green	14	~	28	mcd
	Yellow	5.6	~	11	mcd
"PL"	Yellow Green	22	~	45	mcd
	Yellow	5.6	~	11	mcd
"MM"	Yellow Green	9.0	~	18	mcd
	Yellow	9.0	~	18	mcd
"NM"	Yellow Green	14	~	28	mcd
	Yellow	9.0	~	18	mcd
"PM"	Yellow Green	22	~	45	mcd
	Yellow	9.0	~	18	mcd

7. PRODUCT WEIGHT Product weight per piece, approx 0.018 grm.

8. MSL Level 3

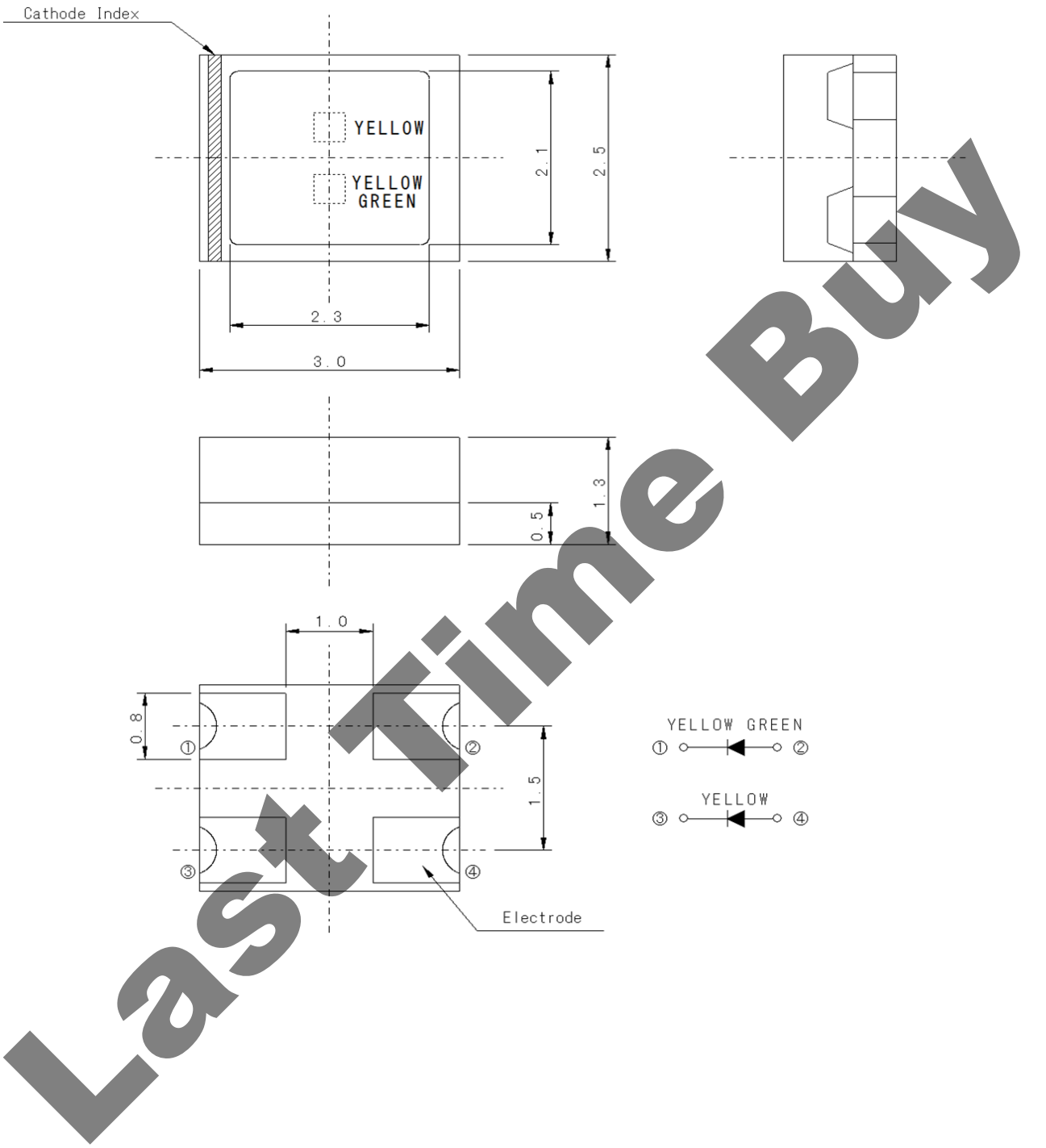
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*1 : This product cannot be used for Automotive & Industrial (base station, smart meters, signal, etc. and social infrastructure) usage.
If you are not sure about the usage, please contact ROHM.
*2 : Absolute maximum rating is the limit which must not be exceeded even for an instant, once exceeded, LED device destruction might occur.
This is not the value that guarantees intensity of light life and other reliabilities.
Please refer to the derating data [*4] & conducting test data, and make sure to keep the value within absolute maximum rating while using.
*3 : If rank shift occur, we may ask for re-approval of new rank when necessary.
*4 : Even within derating, the reliability and luminosity life may be affected by deterioration of sealing resin and reflector, etc.
So please check with your application again.

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【Figure 1】



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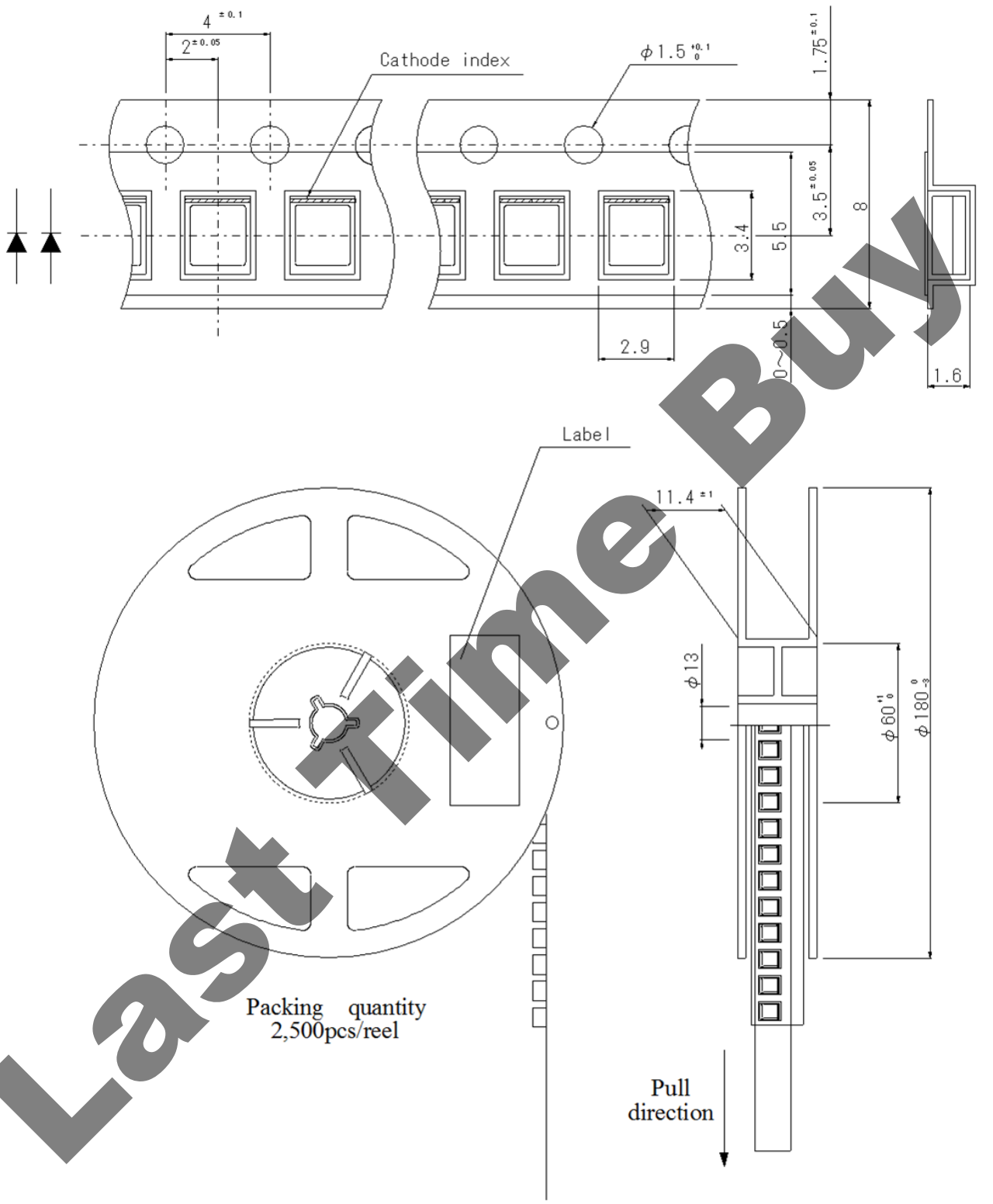
（Unit : mm）

(Note) Tolerance is within ±0.2mm unless otherwise specified.

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【Taping : T86】



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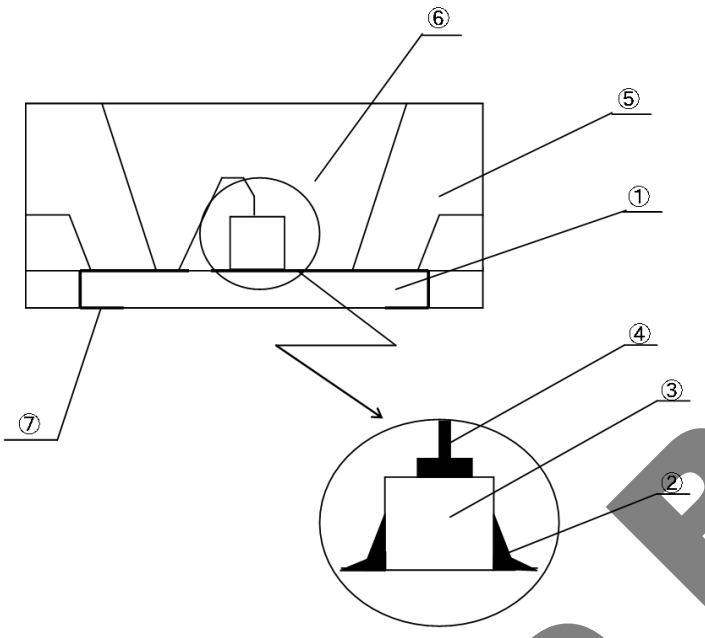
（Unit : mm）

(Note) Tolerance is within ±0.2mm unless otherwise specified.

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【STRUCTURE・MATERIAL】



No.	APPELLATION	MATERIAL
①	Printed Wiring Board	Glass epoxy
②	Die Bond	Ag paste
③	LED Chip	Yellow Green ： GaP Yellow ： GaAsP
④	Bonding Wire	Gold
⑤	Reflector	Thermoplastic resin
⑥	Resin	Silicone resin
⑦	Electrode	Base plating ： Cu,Ni Top plating ： Au

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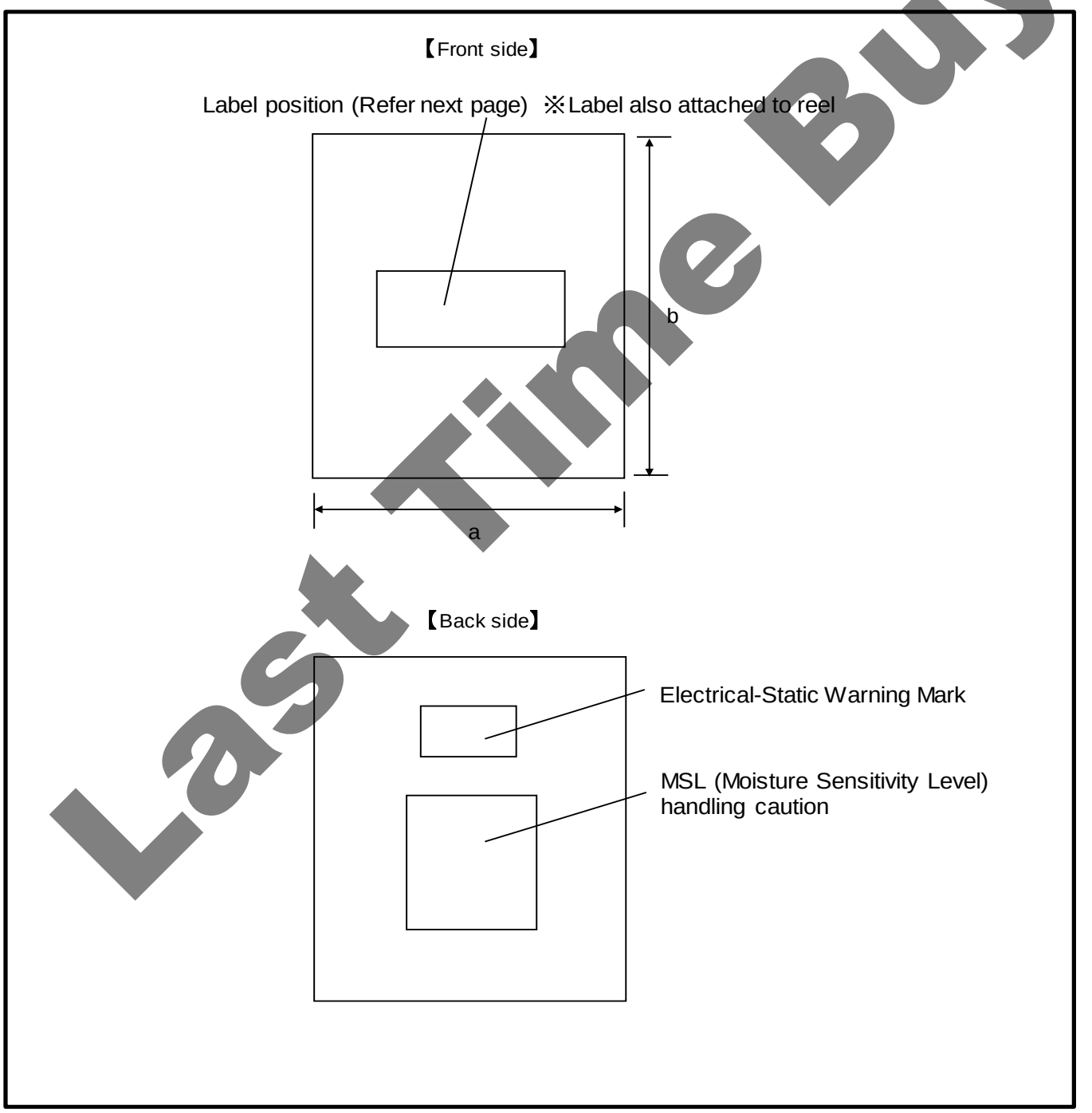
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【PACKAGING REQUIREMENTS】

1. PACKING

(1) One reel is packed in aluminum bag.
The size of aluminum bag is 240(a)×250～280(b)mm.
(2) Aluminum bag is sealed by pressured for all directions.
(3) Insert the moisture indicator card to the aluminum bag.
(4) Print the “Electrical-Static Warning mark”label and
“MSL (Moisture Sensitivity Level : JEDEC compatible”label on the back side of aluminum bag.



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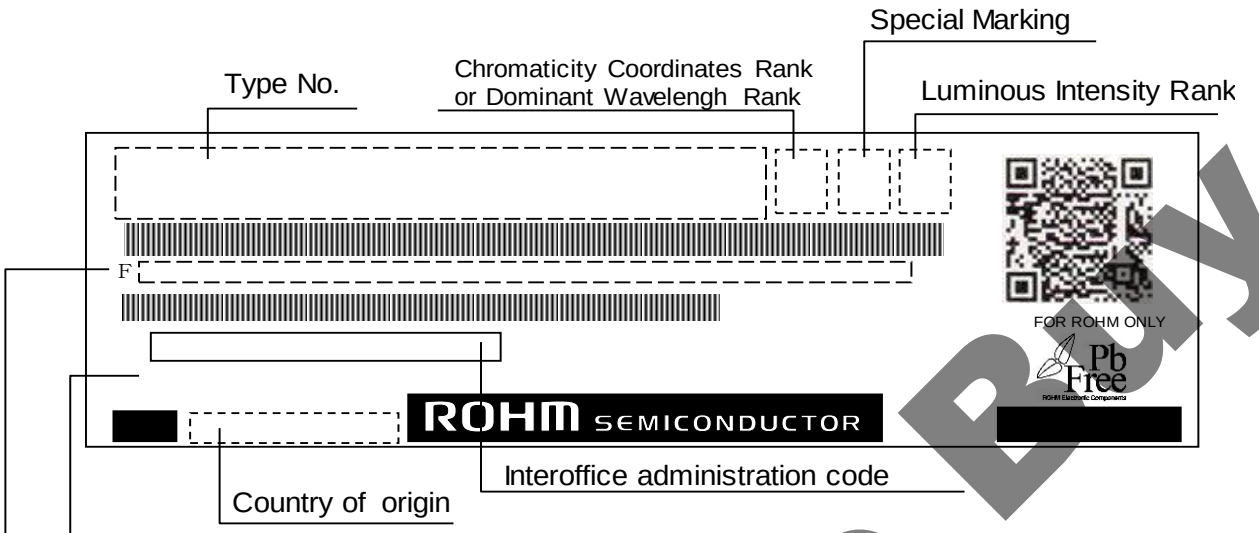
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2. MARKING

The following information shall be described in the label on the aluminum bag & reel.:
ROHM Type number, Packing quantity, Luminous intensity rank, and Lot number etc.
MSL indications, part numbers, etc. are not marked on the reels.

【FORMER LABEL SPECIFICATION】



Note) Indicates bar code expressed by code 39.

Pb Free Indicates Pb-free Products.

【EXAMPLE OF LOT NO. MARKING】

2 5	0 3	0 0 0 1 2	W
①	②	③	④

① Production year
② Production week
③ Serial number of lot
④ Production facility symbol (Reference the manufactory list)

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●Precaution (Surface Mount Device)

1.Storage

If the product is heated during the reflow under the condition of hygroscopic state, it may vaporize and expand which will influence the performance of the product. Therefore, the package is waterproof. Please use the product following the conditions:

・Using Conditions

Classification	Temperature	Humidity	Expiration Date	Remark
①Before using	5～30℃	30～70%RH	Within 1 year from Receiving	Storage with waterproof package
②After opening package	5～30℃	Below 70%RH	Within 168h	Please storing in the airtight container with our desiccant (silica gel)

・Baking

Bake the product in case of below:
①The expiration date is passed.
②The color of 5% and 10% on humidity indicator card is not green.
(Even if the product is before expiration date.)

・Baking Conditions

Temperature	Time	Humidity
60±3℃	12～24h	Below 10%RH

Remark	・Bake products in reel. ・Reel and embossed tape are easy to be deformed when baking, so please try not to apply stress on it. ・Recommend bake once.

2.Application Methods

2-1.Color of sealing resin

This product may differ in the color of the resin due to the influence of the material contained in the sealing resin. There are no problems with the use.

2-2. Precaution for Drive System and Off Mode

Design the circuit without the electric load exceeding the ABSOLUTE MAXIMUM RATING that applies on the products. If drive by constant voltage, it may cause current deviation of the LED and result in deviation of luminous intensity, so we recommend to drive by constant current. (Deviation of VF value will cause deviation of current in LED.) Furthermore, for off mode, please do not apply voltage neither forward nor reverse. Especially, for the products with the Ag-paste used in the die bonding, there's high possibility to cause electro migration and result in function failure.

2-3. About derating

It is considered that derating characteristics will not result in LED chip's electrical destruction. Even within the derating, the reliability and luminous life can be affected depending on operating conditions and ambient environment. So we would be appreciate it if you can confirm with your application again.

2-4. About product life

Depending on operating conditions and environment(applied current, ambient temperature and humidity, corrosive gas), decreasing of luminosity and change of chromaticity may occur even within the specification conditions. Please contact our sales office if you use it for the following applications.

① It requires long luminosity life
② It is always lit

2-5.Applied Stress on Product

The top of the LED is very soft, which the silicone resin is used as sealing resin.Therefore, please pay attention to the overstress on it which may influence its reliability.

2-6.Usage

The product is LED. We are not responsible for the usage as the diode such as protection chip, rectifier, switching and so on.

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3. Others

3-1. Surrounding Gas

Notice that if it is stored under the condition of acid gas (chlorine gas, sulfured gas) or alkali gas (ammonia), it may result in low soldering ability (caused by the change in quality of the plating surface) or optical characteristics changes (light intensity, chrominance) and change in quality of die bonding (Ag-paste) materials. All of the above will cause function failure of the products.
Therefore, please pay attention to the storage environment for mounted product (concern the generated gas of the surrounding parts of the products and the atmospheric environment).

3-2. Electrostatic Damage

The product is part of semiconductor and electrostatic sensitive, there's high possibility to be damaged by the electrostatic discharge. Please take appropriate measures to avoid the static electricity from human body and earthing of production equipment.Especially, InGaN type LEDs have lower resistance value of electrostatic discharge and it is recommended to introduce the ESD protection circuit.The resistance values of electrostatic discharge (actual values) vary with products, therefore, please call our Sales staffs for inquiries.

3-3. Electromagnetic Wave

Applications with strong electromagnetic wave such as, IH cooker, will influence the reliability of LED, therefore please evaluate before using it.

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4.Mounting

4-1. Soldering

・No resin hardening agent such as filler is used in the sealing resin of the product. Therefore, resin expansion and moisture absorption at humidity will cause heat stress during soldering process and finally has bad influence on the product's reliability.
・The product is not guaranteed for flow soldering.
・Do not expose the product in the environment of high temperature (over 100℃) or rapid temperature shift (within 3℃/sec. of temperature gradient) during the flow soldering of surrounding parts.
In case of carrying out flow soldering of surrounding parts without recommended conditions, please contact us for inquiries.
・Please set appropriate reflow temperature based on our product usage conditions and specification.
・The max for reflowing is 2 times, please finish the second reflow soldering and flow soldering with other parts within the usage limitation after open the moistureproof package.
・Compare with N2 reflow, during air reflow, because of the heat and surrounding conditions, it may cause the discoloration of the resin.
・For our product that has no solder resist, because of its solder amount and soldering conditions, one of its specific characteristics is that solder will penetrate into LED. Thus, there's high possibility that will influence its reliability. Therefore, please be informed, concerning it before using it.

4-2. Automatic Mounting

4-2-1.Suction nozzle

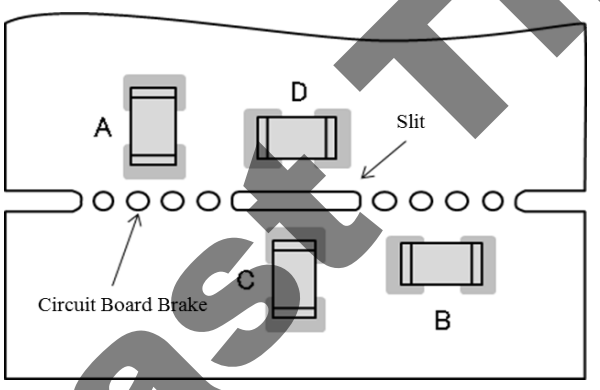
Excessive load may cause damage inside the LED product, so select an optimal suction nozzle according to the material and shape of the LED product.

4-2-2.Mini Package (Smaller than 1608 size)

Vibration may result in low mounting rate since it will cause the static electricity of product and adhere to top cover tape. We recommend to
・set magnet on parts feeder cassette of the mounter to control the product stabilization
・set ionizer to prevent electrostatic charge

4-3. Mounting Location

The stress like bending stress of circuit board dividing after mounting, may cause LED package crack or damage of LED internal junction, therefore, please concern the mounting direction and position to avoid bending or screwing with great stress of the circuit board.



Stress strength according to the mounting position:
A＞B＞C＞D

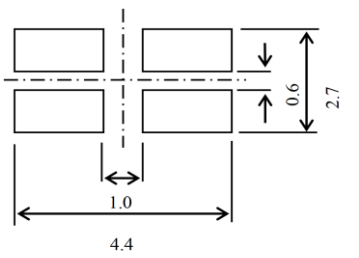
4-4. Mechanical Stress after Mounting

The mechanical stress may damage the LED after circuit mounting, so please pay attention to the touch on product.

4-5. Soldering Pattern for Recommendation

We recommend the soldering pattern that shows on the right.
It will be different according to mounting situation of circuit board, therefore, please concern before designing.

※The product has adopted the electrode structure that it should solder with back electrode of the product.
Thus, please be informed that the shape of electrode pin of solder fillet formation is not guaranteed.
The through hole on electrode surface is for conduction of front and rear electrodes but not for formation of solder fillet.



(Unit : mm)

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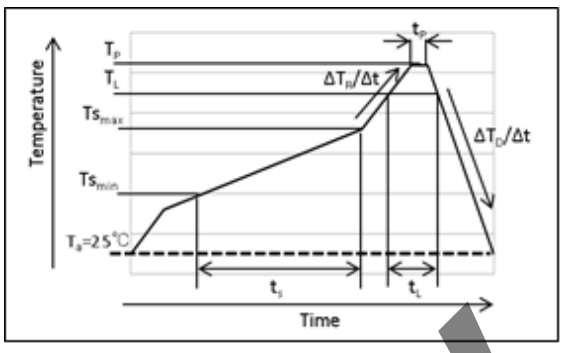
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4-6. Reflow Profile

For reflow profile, please refer to the conditions below:(※)

・Meaning of marks, Conditions

Mark	Meanings	Conditions
Ts_{max}	Maximum of pre-heating temperature	180℃
Ts_{min}	Minimum of pre-heating temperature	140℃
Ts	Time from Ts_{min} to Ts_{max}	Over 60 sec.
T_L	Reference temperature	210～250℃
t_L	Retention time for T_L	Within 40 sec.
T_P	Peak temperature	250℃(MAX.)
t_P	Time for peak temperature	Within 10 sec.
$\Delta T_R/\Delta t$	Temperature rising rate	Under 3ºC/sec.
$\Delta T_D/\Delta t$	Temperature decreasing rate	Within -3℃/sec.



※Above conditions are for reference. Therefore, evaluate by customer's own circuit boards and reflow furnaces before using, because stress from circuit boards and temperature variations of reflow furnaces vary by customer's own conditions.

4-7. Attention Points in Soldering Operation

This product was developed as a surface mount LED especially suitable for reflow soldering.
So reflow soldering is recommended. Incase of implementing manual soldering,
please take care of following points.

① SOLDER USED

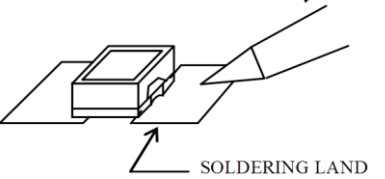
Sn-Cu, Sn-Ag-Cu, Sn-Ag-Bi-Cu

②HAND SOLDERING CONDITION

LED products do not contain reinforcement material such as a glass fillers.
So thermal stress by soldering greatly influence its reliability.
Please keep following points for manual soldering.

	ITEM	RECOMMENDED CONDITION
a)	Heating method	Condition) Temp. of iron top less than 400 ℃ within 3 sec, up to 1 time. Heating on PCB pattern, not direct to the LED. (Fig-1)
b)	Handling after soldering	Please handle after the part temp. Goes down to room temp.

Figure-1



4-8. Cleaning after Soldering

Please follow the conditions below if the cleaning is necessary after soldering.

Solvent	We recommend to use alcohols solvent such as, isopropyl alcohols
Temperature	Under 30℃ within 3 minutes
Ultrasonic Cleaning	15W／Below 1 liter (capacity of tank)
Drying	Under 100℃ within 3 minutes

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【MANUFACTORY】

FACTORY	SYMBOL
ROHM Wako Co.,Ltd. 100 Tomioka, Kasaoka, Okayama 714-8585 Japan	W
ROHM Electronics (Malaysia) Sdn. Bhd. Lot 1320 Kawasan Perindustrian, Pengkalan ChepaII, Padang Tembak 16100 Kota Bharu, Kelantan, Malaysia	D
ROHM Semiconductor (China) Co.,Ltd. No.7, Weisan Rd, Micro-electronics Ind, Jingang Highway Xiqing Dist, Tianjin 300385	N
HARVATEK CORPORATION（Taiwan OEM) No.18, Lane522, Sec.5, JhonghuaRd, Hsinchu City 300, Taiwan 30094	1

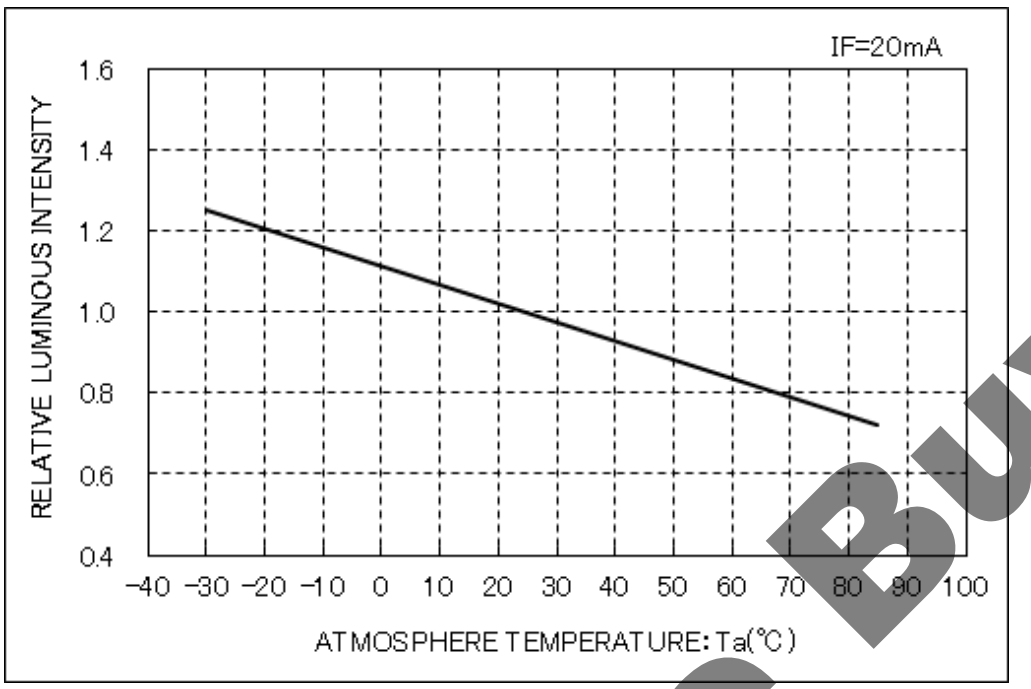
* This sheet is mentioned all factory locations of LED products.
  Please contact us if you need detail information about each package.

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RELATIVE LUMINOUS INTENSITY - ATMOSPHERE TEMPERATURE



Time Buy
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※This data is actual value from specific lot and is not guaranteed.

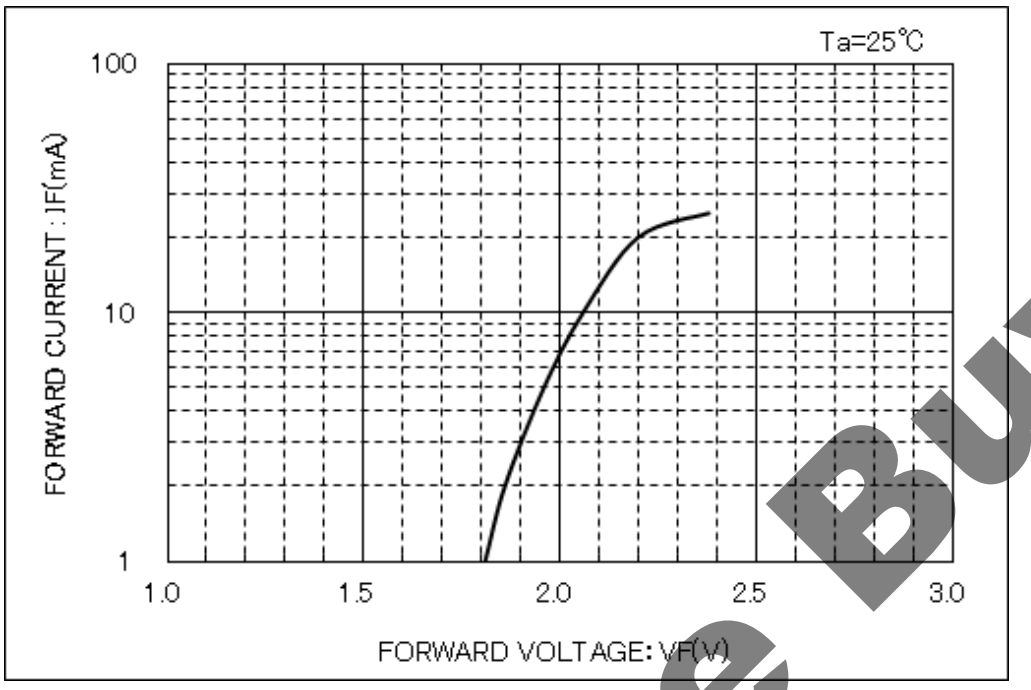
Reference

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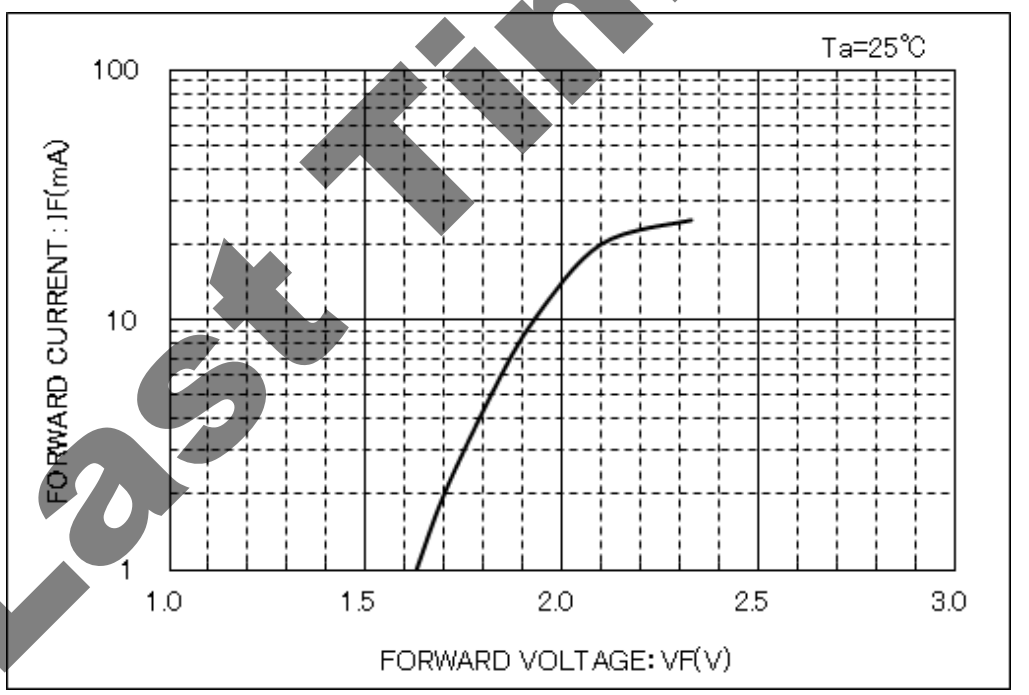
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FORWARD CURRENT - FORWARD VOLTAGE

【 Yellow Green 】



【 Yellow 】



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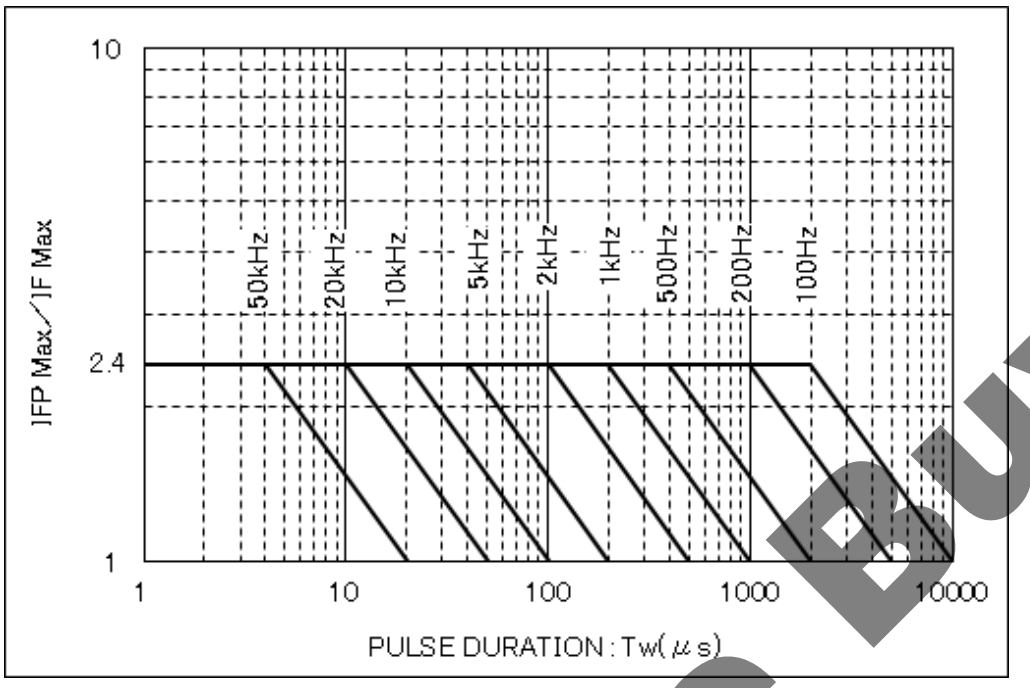
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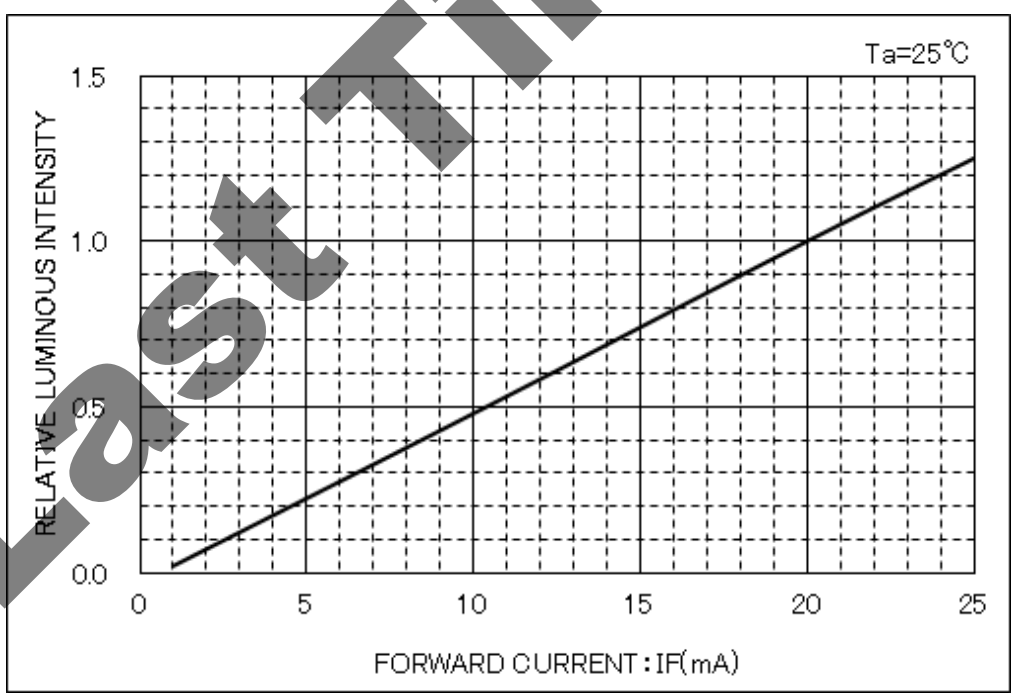
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RATIO OF MAXIMUM TOLERABLE PEAK CURRENT - PULSE DURATION



(Note) In case of lighting a single color.

RELATIVE RADIANT INTENSITY - FORWARD CURRENT



※This data is actual value from specific lot and is not guaranteed.

Reference

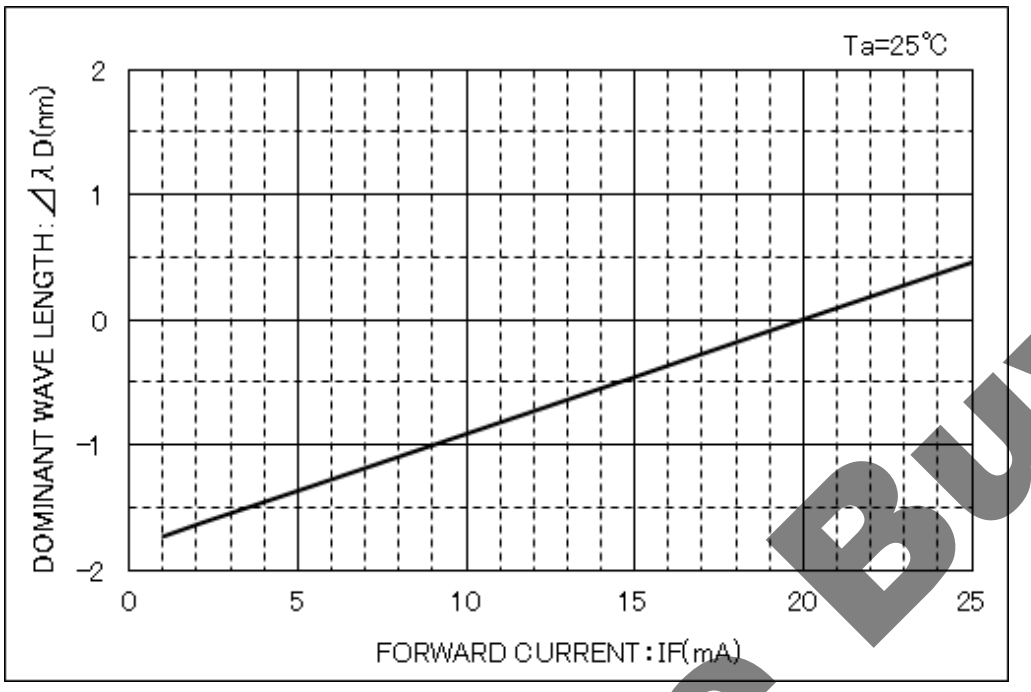
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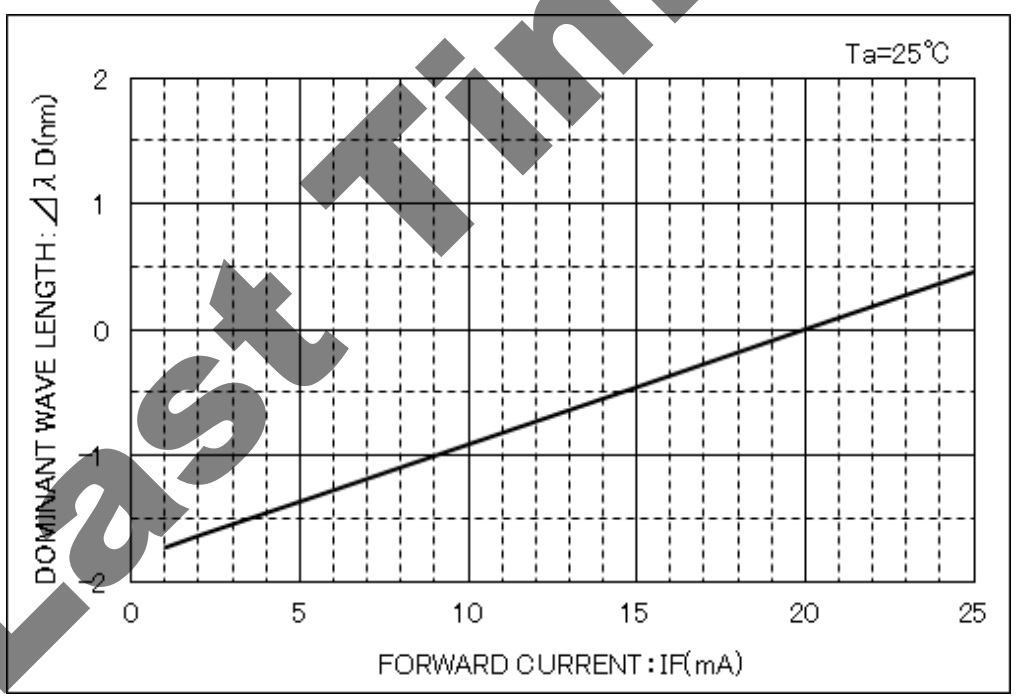
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DOMINANT WAVELENGTH - FORWARD CURRENT

【 Yellow Green 】



【 Yellow 】



※This data is actual value from specific lot and is not guaranteed.

Reference

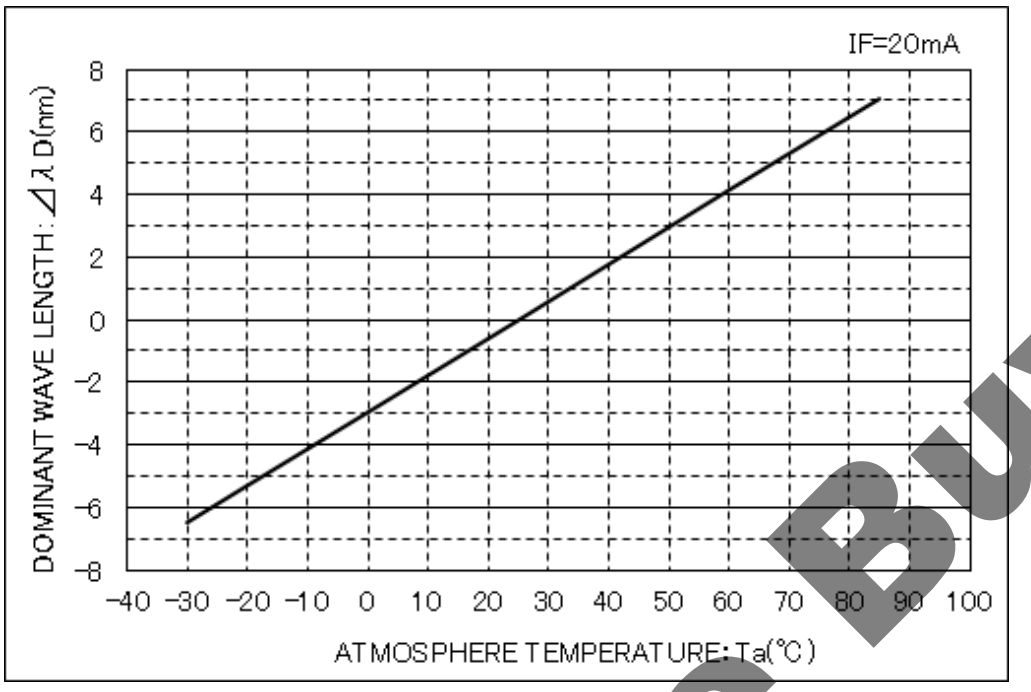
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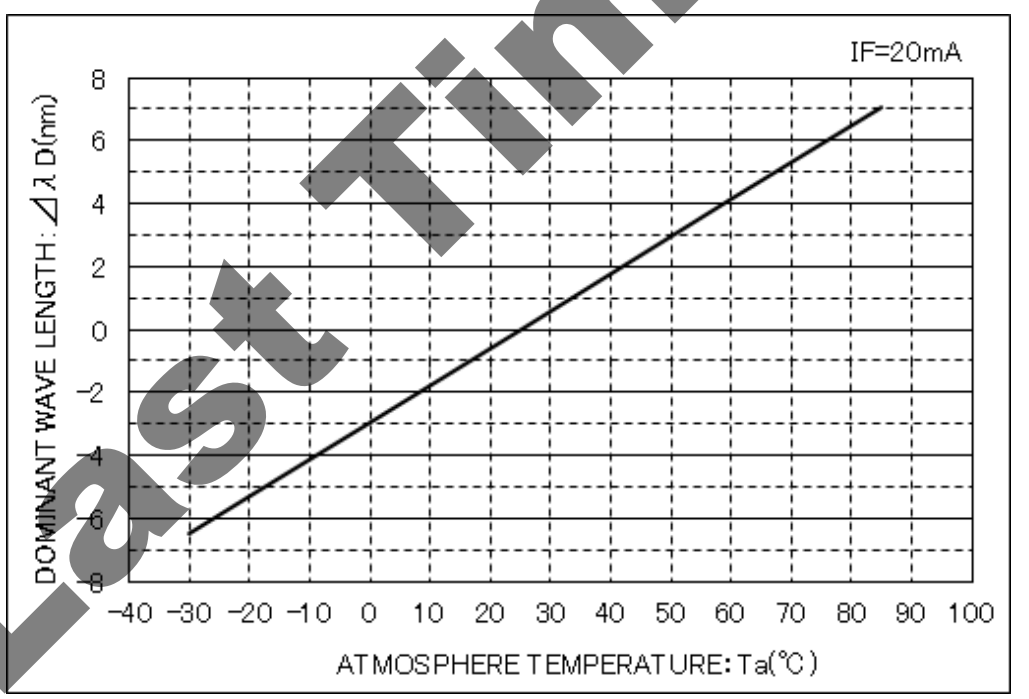
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DOMINANT WAVELENGTH - ATMOSPHERE TEMPERATURE

【 Yellow Green 】



【 Yellow 】



※This data is actual value from specific lot and is not guaranteed.

Reference

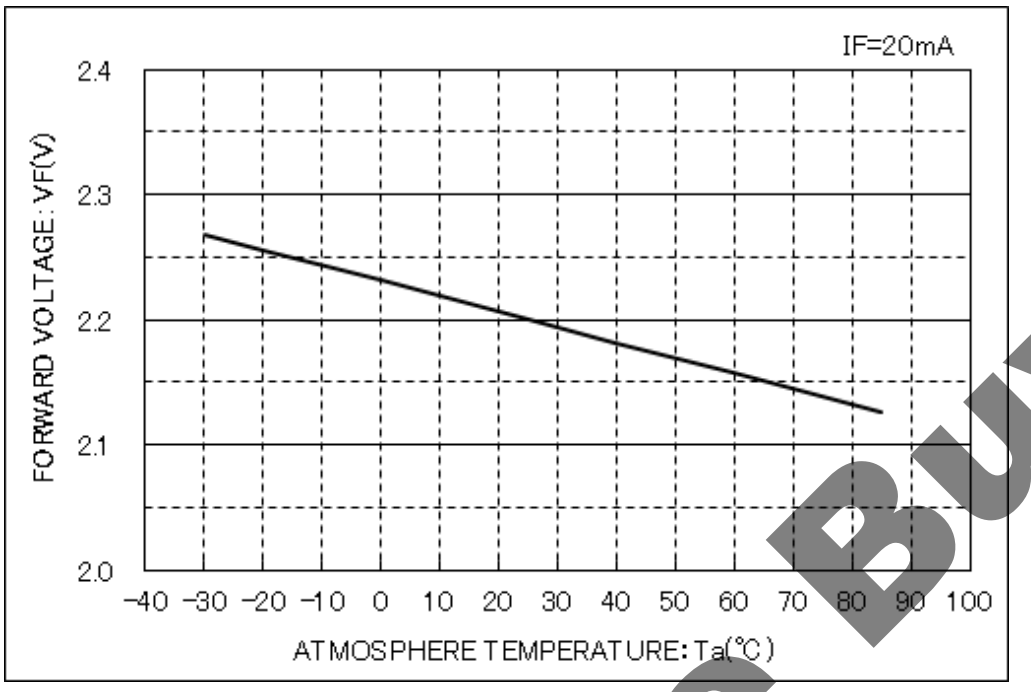
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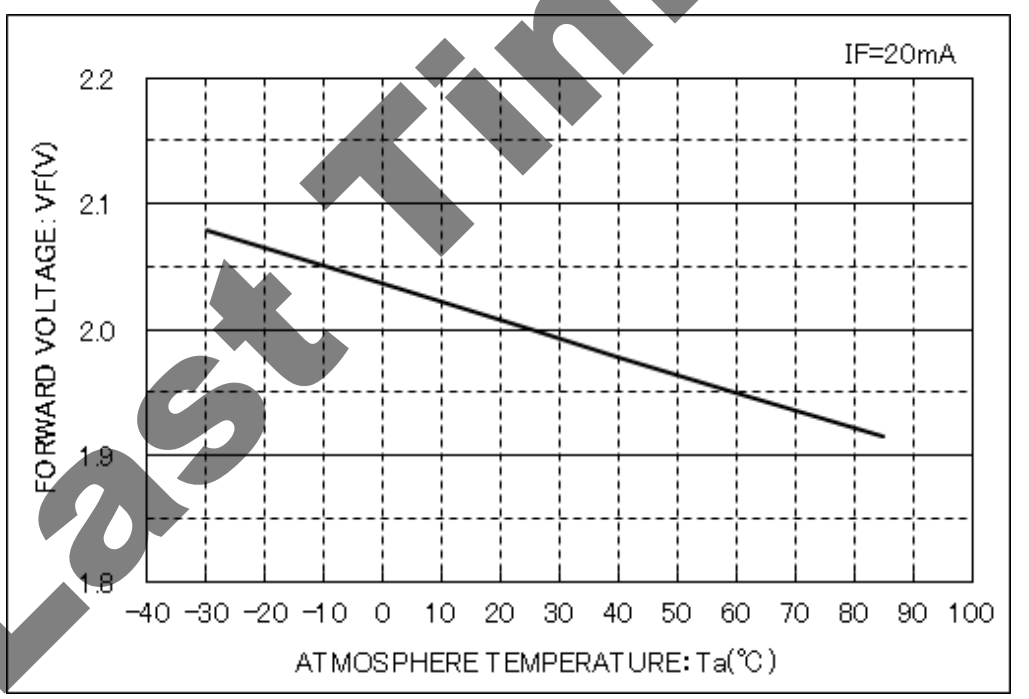
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FORWARD VOLTAGE - ATMOSPHERE TEMPERATURE

【 Yellow Green 】



【 Yellow 】



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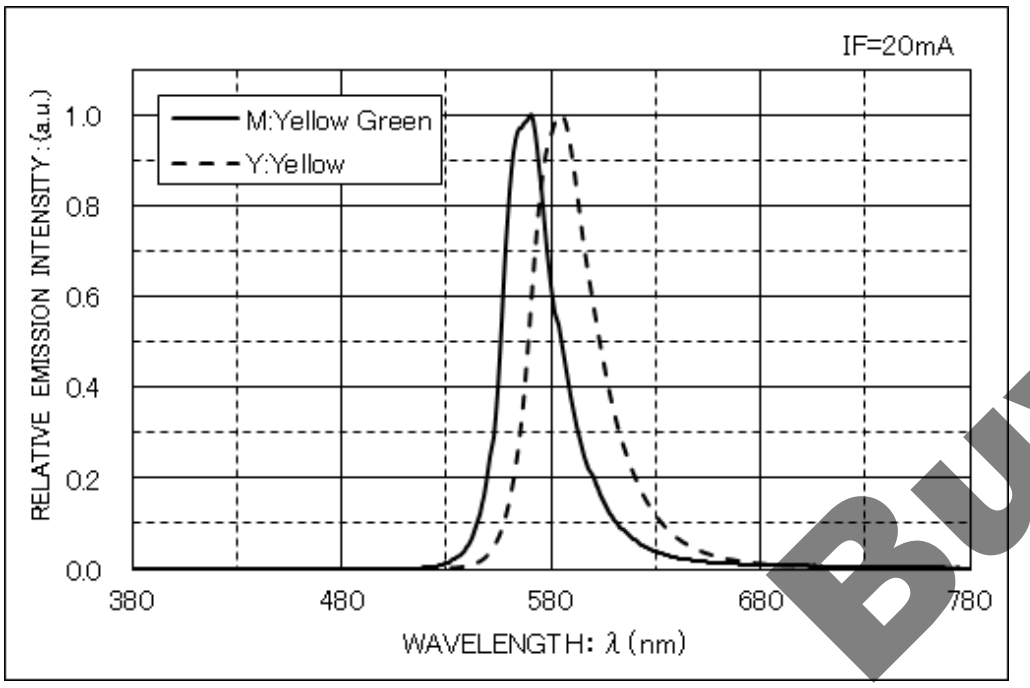
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SPECTRUM



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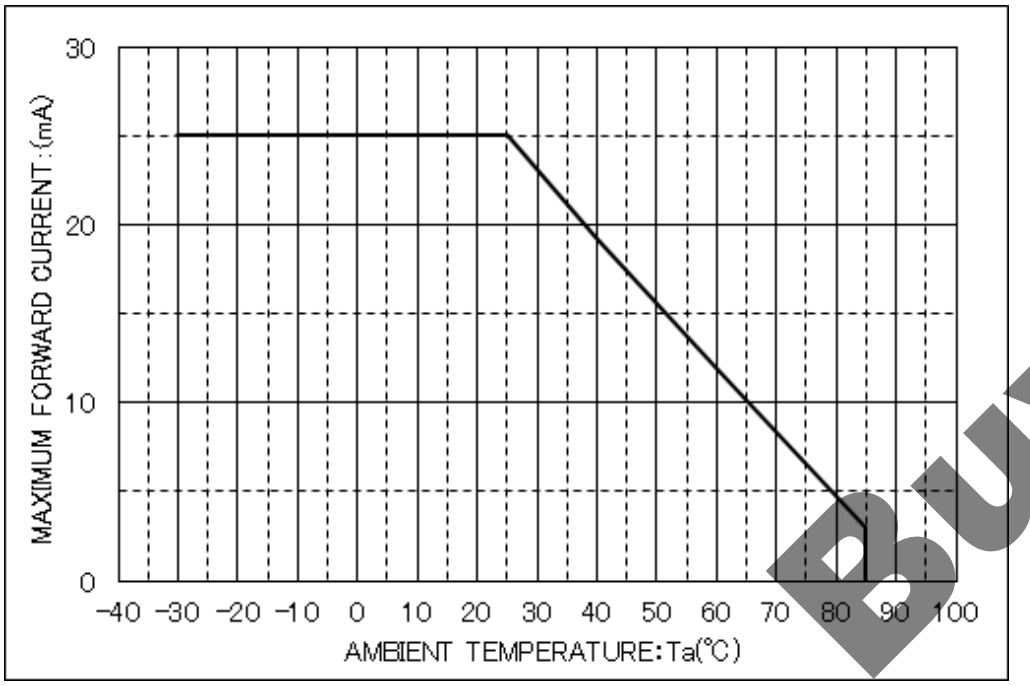
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DERATING※1、※2



(Note) In case of lighting a single color.

THERMAL RESISTANCE(JUNCTION/SOLDER POINT)※1

Rθj-s ・・・ 296℃/W【Yellow Green】
Rθj-s ・・・ 269℃/W【Yellow】

THERMAL RESISTANCE(JUNCTION/AMBIENT)※1

Rθj-a ・・・ 443℃/W【Yellow Green】
Rθj-a ・・・ 403℃/W【Yellow】

JUNCTION TEMPERATURE

TjMax ・・・ 100℃

※1:【Evaluation board】
Glass epoxy(FR4) : 30x10mm,t=0.8mm
Pad Size(Cu) : 4.0x4.0mm(Cathode),t=0.07mm

※1 : Even within derating, the reliability and luminosity life may be affected by deterioration of sealing resin and reflector, etc. So please check with your application again.

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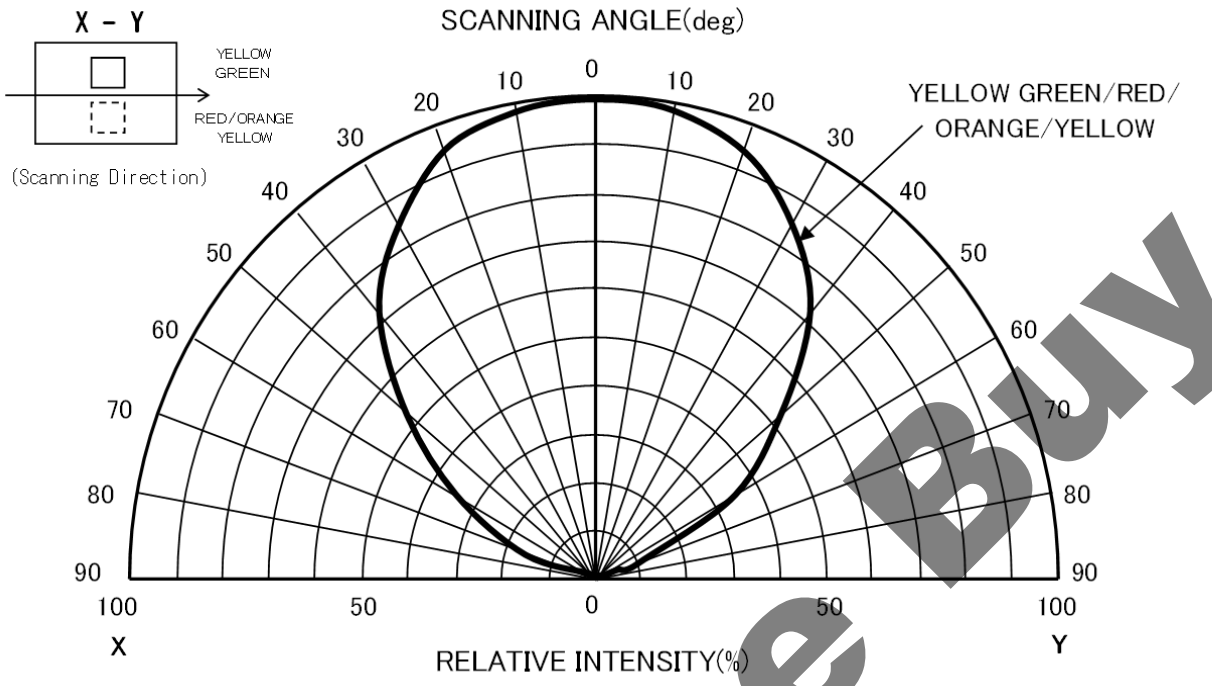
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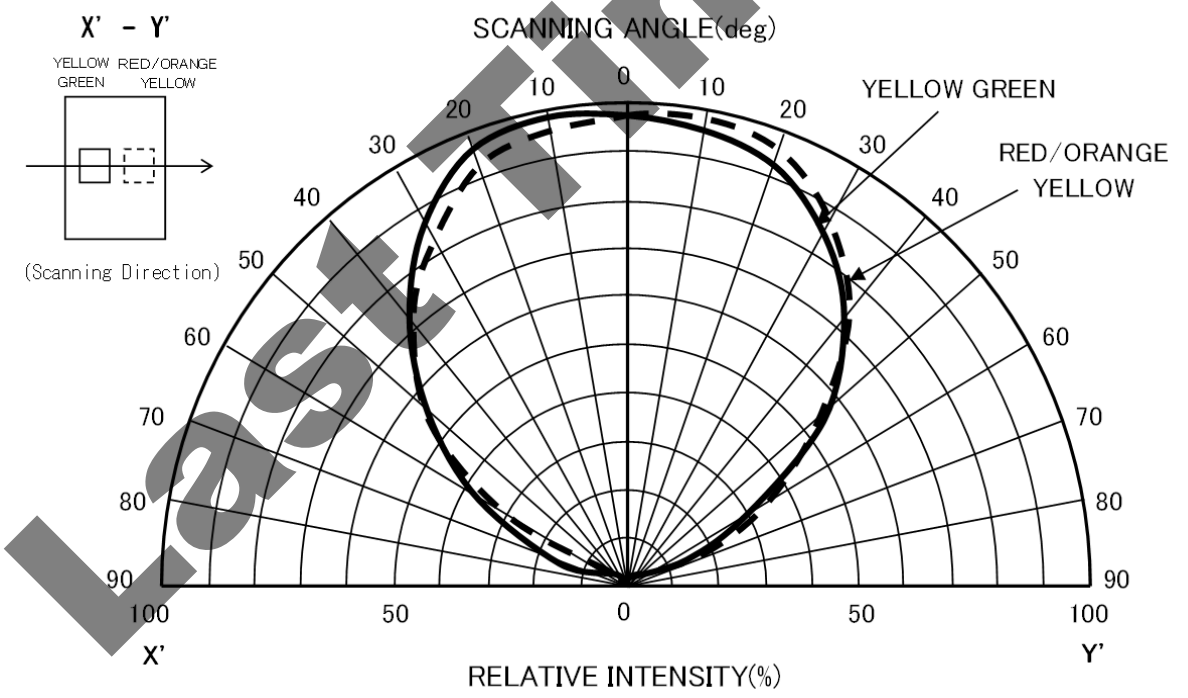
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RELATIVE LUMINOUS INTENSITY - VIEWING ANGLE





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【Reliability Test Result】

1.Test Result

Test Items	Reference STD	Test Condition	n (pcs)	Pn (pcs)
Solder Heat Resistance for Reflow Soldering	J-STD-020D-01	Prtreatment : Temperature Humidity Strage (30ºC/70%RH/168hr) Reflow Peak Temp. : 260ºC 10sec Over 230℃/60sec Preheat : 140 to 180ºC 60sec Number of reflow : 2 times	22	0
Solderbility	JESD22-B102E	Immerse into rosin flux for 5±1sec,and the device for 3±0.5sec into Pb-free solder bath at 245±5ºC	22	0
Drop test	JEITA ED-4701 A-124	H=75cm Maple Boad : 3 times	22	0
Vibration	JEITA ED-4701 A-121	100～2000Hz 98.1m/s^2 2hours each on each direction of X,Y,Z	22	0
Thermal Cycle	JESD22-A104E	Ta=Tstg Min.ºC(30min.) ～ Tstg Max.ºC(30min.) 100cycle	22	0
High Temperature Strage	JESD22-A103E	Ta=Tstg Max.+5°C/-0°C 1000hrs	22	0
High Temperature High Humidity Strage	JEITA ED-4701 B-121	Ta=85±2ºC 85±5%RH 240hrs	22	0
Low Temperature Strage	JESD22-A119A	Ta=Tstg Min.±5ºC 1000hrs	22	0
Load Life	JESD22-A108D	Ta=25±5ºC IF=IFMax. 1000hrs ＜In case of lighting a single color＞	22	0

2.Failure Criteria

Items	Condition	Criteria
Luminous Intensity	IF=20mA	60% of the initial value
Forward Voltage	IF=20mA	Changing rate of ±10%
Reverse Current	VR=VR Max.	Maximum of specification
Appearance	Visual Check	No major change in appearance

Solderbility	More than 95% of the electrode must be covered with solder.

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【Electric Static Discharges（ESD）】

1.Human Body Model

Based Standard	JS-001-2014		Criteria	VR=5V, IR≦ Spec Max.	
Test Condition	100pF 1.5kΩ		Sample Quantity	Each 10pcs	
Test Result	Color	Min.		Typ.	Max.
Forword	Yellow Green	Over 3000V		Over 3000V	Over 3000V
Reverse		Over 3000V		Over 3000V	Over 3000V
Forword	Yellow	Over 3000V		Over 3000V	Over 3000V
Reverse		Over 3000V		Over 3000V	Over 3000V

2.Charged Device Model

Based Standard	JEDEC JESD22-C101E		Criteria	VR=5V, IR≦ Spec Max.	
Test Condition	Applied Voltage(V)	+1000V,-1000V			
	Discharged terminal	Yellow Green-Anode	Yellow Green-Cathode	Yellow-Anode	Yellow-Cathode
Test Result	Pn/n	0/10			

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