Specification for approval

CUSTOMER NAME: _____

DIRECTOR: _____ TITLE: _____

CUSTOMER PART NO.: _____

PART NUMBER: IE-2018RB-F-ST-CE REVISION: 2.0

ISSUE DATE: 2014/11/22 RETURN DATE: ___/___/___

We are please in sending you herewith our specification and drawings for your approval.

Please return to us one copy "For Approval" with your approved signatures.

CUSTOMER'S PROPOSAL

☐ AGREE

☐ DISAGREE

REASON _____

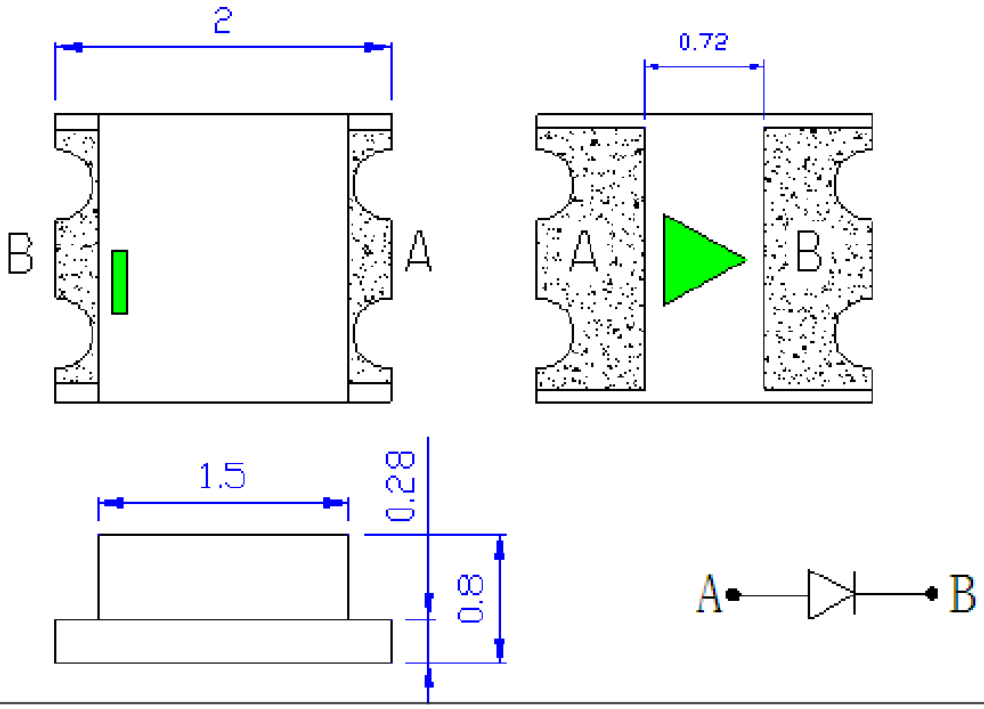
_____

CUSTOMER SIGNATURE: _____

APPLICATION

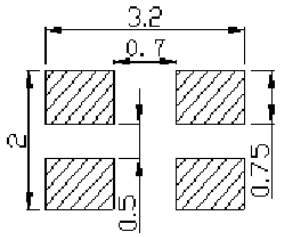
ELECTRICAL CHARACTERISTICS (VDD=3V , TA=25℃ unless otherwise specified)

Characteristic	Symbol	Min.	Typ.	Max.	Unit	Remarks
Operating Voltage	V_{DD}	3.0	3.2	3.5	V	
Operating Current	I_{DD}	-	0.1	0.2	mA	No load
Driving Current	I_{OL}	-	25	-	mA	@V_{DS}=1.0V
Operating Temperature	Temp.	0	25	60	℃	



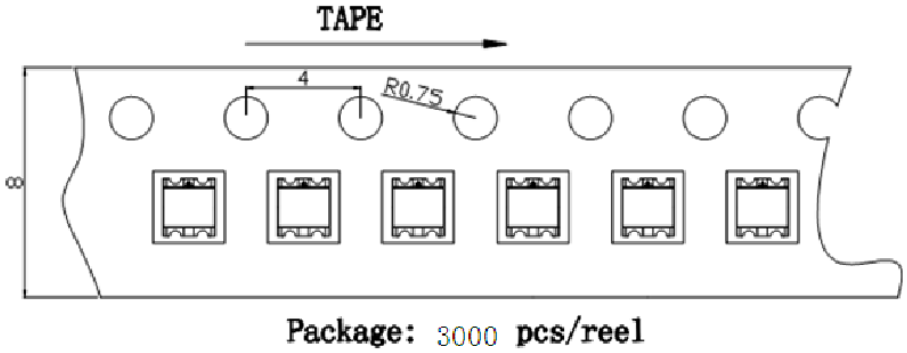
Recommended Soldering Pattern

(Units : mm)



Tape Specifications

(Units : mm)



Package: 3000 pcs/reel

Remarks:

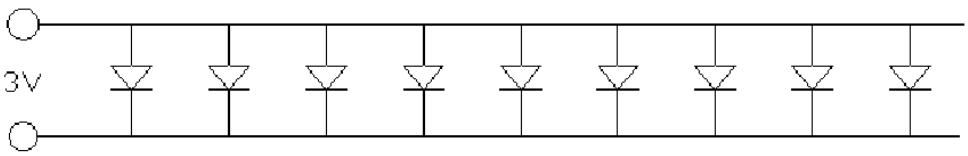
If special sorting is required (e.g. binning based on forward voltage, luminous intensity / luminous flux or wavelength),

the typical accuracy of the sorting process is as follows:

1. Wavelength: +/-1nm
2. Luminous Intensity / Luminous Flux: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

Suggest welding way



RELIABILITY

Test Items and Results

1		JEITA ED-4701	-40℃～25℃～100℃～25℃ 30 5 30 5	100	50	0/50
2		MIL-STD-202G	-40℃～100℃ 15 15	500	50	0/50
3		JEITA ED-4701 200 201	T_a=100℃	1000	50	0/50
4		JEITA ED-4701 200 201	T_a=-40℃	1000	50	0/50
5			T_a=25±5℃ I_F=20mA	1000	50	0/50
6			T_a=60℃ RH=85% I_F=20mA	1000	50	0/50
7		JEITA ED-4701 300 303	T_{sol}=235℃±5℃,5	5	10	0/10
8		JEITA ED-4701 300 301	T_{sol}=260℃,10 35℃ 95%RH 96 小时	10	10	0/10

Cautions

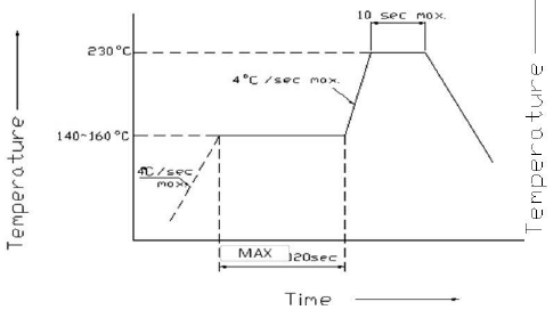
(1) Soldering Conditions

Number of reflow process shall be less than 2 times and cooling process to normal temperature is required between first and Second soldering process.

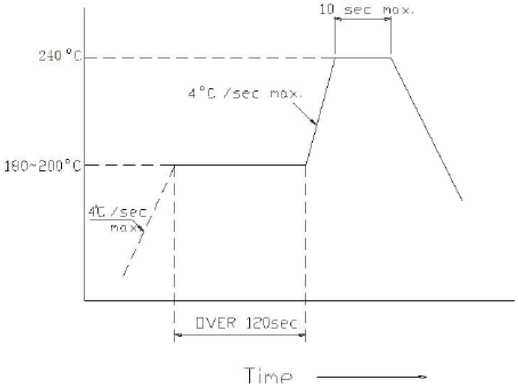
(Recommended soldering conditions)

Reflow Soldering				
	Lead Solder	Lead-free Solder	Temperature Soldering time	350° C Max. 3 sec. Max. (one time only)
Pre-heat Pre-heat time Peak temperature Soldering time	140 ~ 160° C 120 sec. Max. 230° C Max. 10 sec. Max.	180 ~ 200° C 120 sec. Max. 240° C Max. 10 sec. Max.		
Condition				

（Lead Solder）

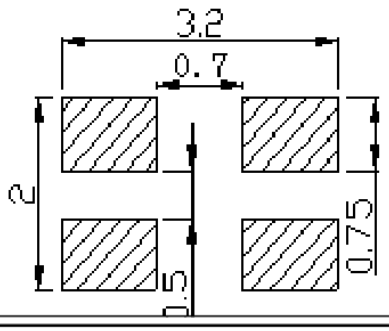


(Lead-Free Solder)



Recommended Soldering Pattern

(Units : mm)



Static Electricity

It is recommended that a wrist band or an anti-electrostatic glove be used when handling the LEDs.

All devices, equipment and machinery must be properly grounded.

2.0V Damaged LEDs will show some unusual characteristics such as the forward voltage becomes lower, or the LEDs do not light at the low current. Criteria : (VF > 2.0V at IF=0.5mA)

(3) Moisture Proof Package

It is recommended that moisture proof package be used .

(4) Cautions:

4.1.

Please check if there is air leak before opening the package, if so, please return the goods back to take drying process for later using.

4.2

Products can be used within 15days after packaging, after that, they must be:

4.2.1

Soldered within 24 hrs

4.2.2

Used in the condition: 30℃ within and 60%RH below

4.2.3

Stored in 30%RH for moisture below.

4.3.

Products cannot be used for and over 15days after being packaged unless opening the package and take drying our process in 85℃/6H.

4.4.

Products not be used for or over 60days after being packaged please return back to take drying out and packaging process for forward using.

4.5.

Products not be used after opening the package need to be dried out for 85℃/6H