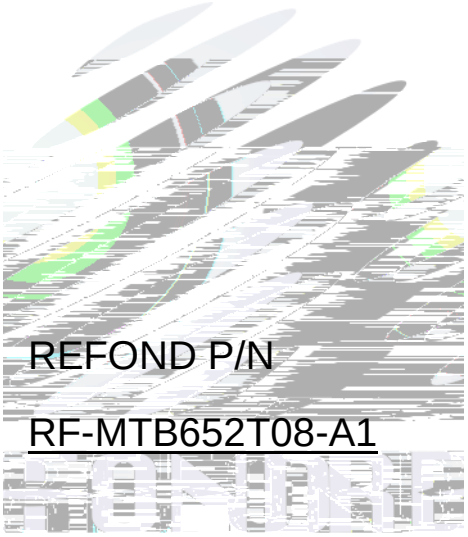
SPECIFICATION



REFOND P/N

RF-MTB652T08-A1

□R&D

■Mass Product

Contents

1. Product Description/

2.Product Specification /

2.1 Optical-electrical Characteristics(Absolute Maximum Ratings At Ts=25)/ .4

2.2 Product Schematic And Interface Definition/ 5

2.3 Product Module rule of naming : 5

3. Product Specification /

3.1 Outline Dimension / 6

4. Product Reliability Test/

5. Product Materials Performance Test And Method At Ta=25 /

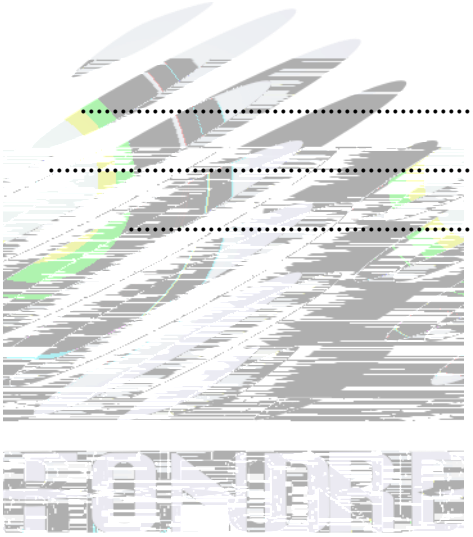
6.Packing Criterion/

6.1 Package Diagram / 9

6.2 Carton silk printing/ 9

6.3Label Form Specification/ 9

7. Handling Precautions



1. Product Description/

high reliability and high safety;

2835 LED Package, high lighting efficiency, low heat, without Mercury, belong to the environmental protection cold light source;

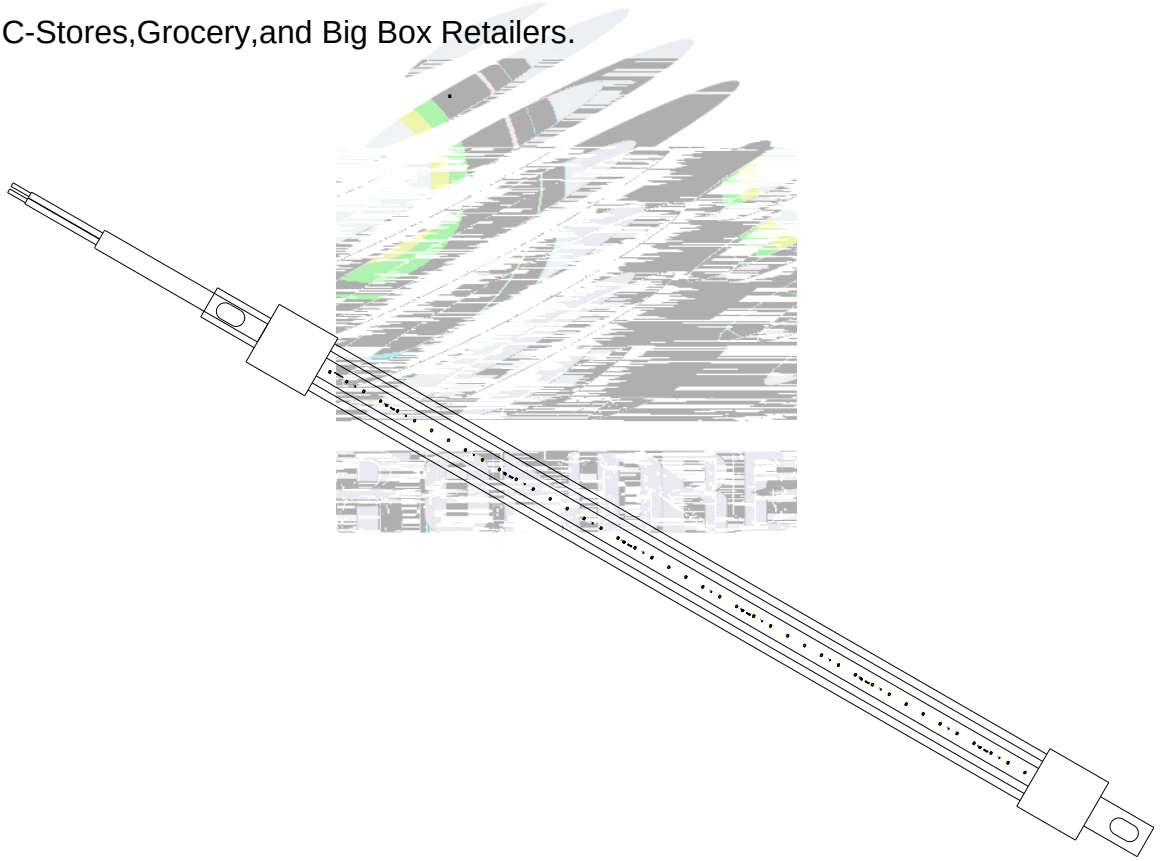
2835LED

The protection of the lamp is up to IP67, with beautiful appearance, no fouling situation.

IP67

Designed for normal and low temperature refrigeration walk-ins and display case applications;

Ldeal for C-Stores,Grocery,and Big Box Retailers.



2.Product Specification /

2.1 Optical-electrical Characteristics(Absolute Maximum Ratings At Ts=25)/

Tab.2-1Optical-electrical Characteristics

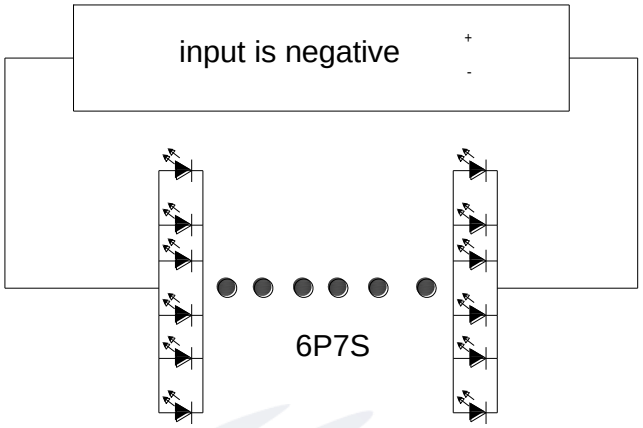
Refond PN		Module Characteristics				
	Customer PN	Current mA	Voltage(V)	Power(W)	Module LM	
		Typ	**Typ**	**Typ**	**Min**	**Max**
RF-MTB652T08-A1 6000-6500K	-	333	24	8 ± 8%	1000	1120
Color Rendering Index	≥ 80	(V)Test condition		Typ		
		24		24		
(MacAdamElipsis)				≤5		

Absolute Maximum Ratings at Ts=25°C

Parameter	Symbol	Rating	Units
Forward Current	I_F	333 ± 8%	mA
Peak Forward Current	I_{FP}	435	mA
Reverse Voltage	V_R	5	V
Electrostatic Discharge (HBM)	E_{SD}	2000	V
Operating Temperature	T_{OPR}	-40 ~ +85	
Storage Temperature	T_{STG}	-40 ~ +100	
Junction temperature LED	T_J	115	

2.2 Product Schematic And Interface Definition/

Fig.2-2 Product connection



2.3 Product Module rule of naming :

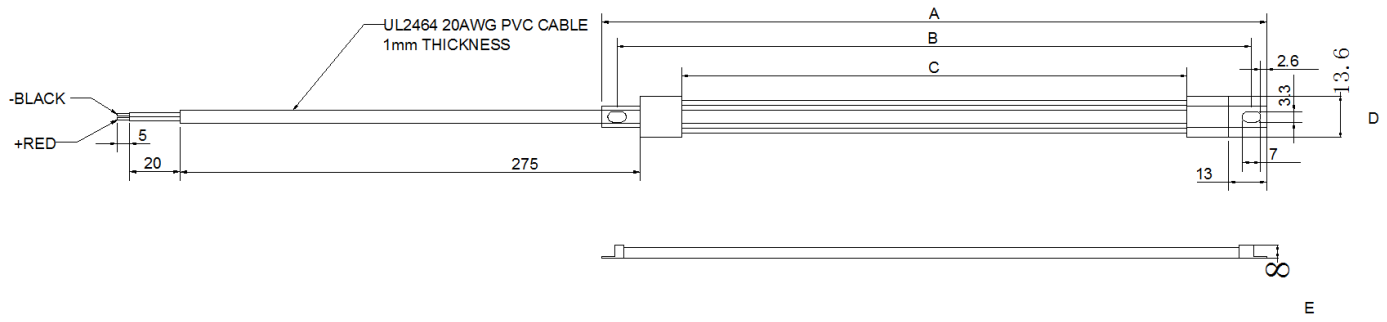
RF MT B 65 2 T 08 B 1

1
Refond version number (1: the first version)
B
Product emitting light way B Top view
08 8W
Product power: 08:Product is 8W
H: 85≥T 80
Product CRI H: 85≥T 80
LED 2 2835
LED Package type 2 2835
65:6000-6500K
Product CCT 65:6000-6500K
B:
Product type (B: Freezer lights)

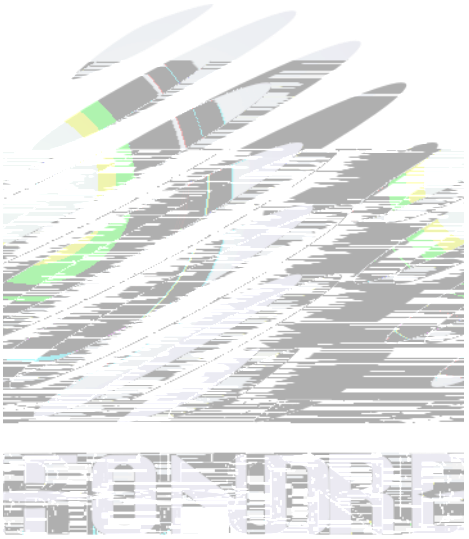
Module department code
RF:
Refond company abbrevitation(RF: Refond)

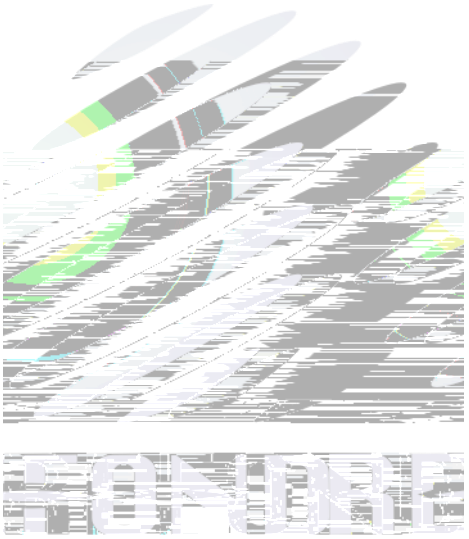
3. Product Specification /

3.1 Outline Dimension /



	Dimension
A	1629 ± 5mm
B	1616 ± 5mm
C	1580 ± 5mm
D	13.6 ± 1mm
E	8 ± 1mm



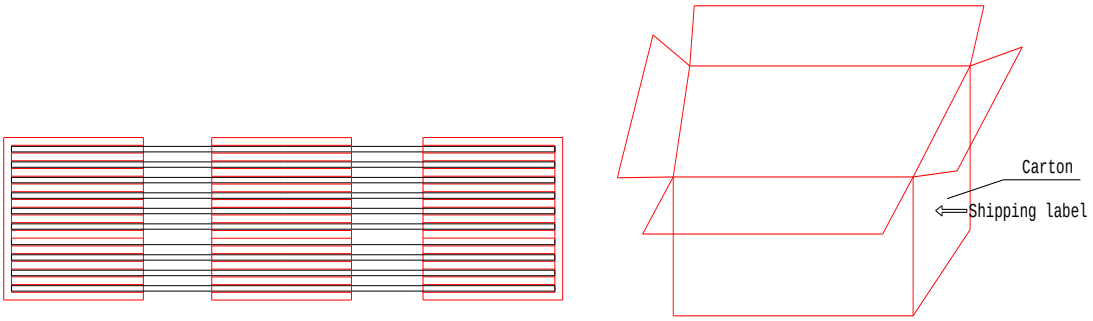


Tel: +86-755-66839118 Fax:+86-755-66839300 E-mail:sales n7W* n1 G[6)-3(6)9(8)-3(3)-3(9)9(1)-3(3E9 TfC[-)]TJETQq43.2 4

6.Packing Criterion/

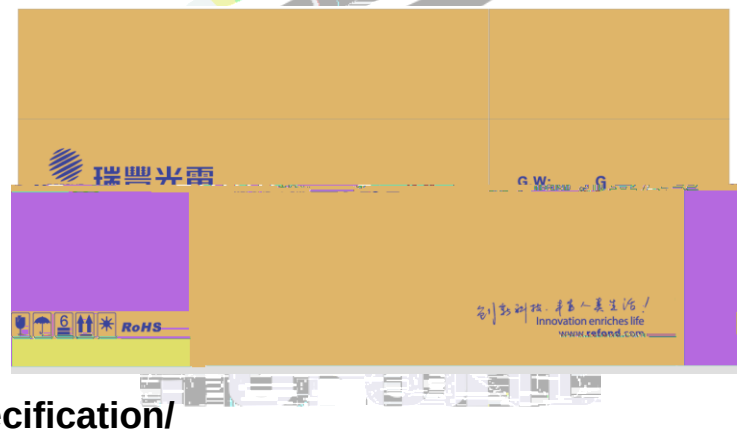
6.1 Package Diagram /

Fig 8-1Package Diagram /



6.2 Carton silk printing/

REFOND LOGOPay attention to identify

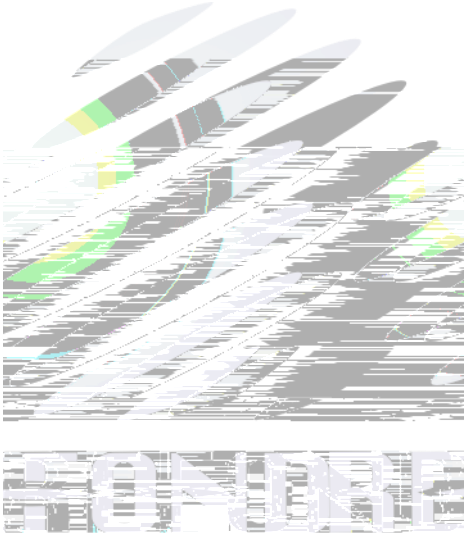


6.3Label Form Specification/

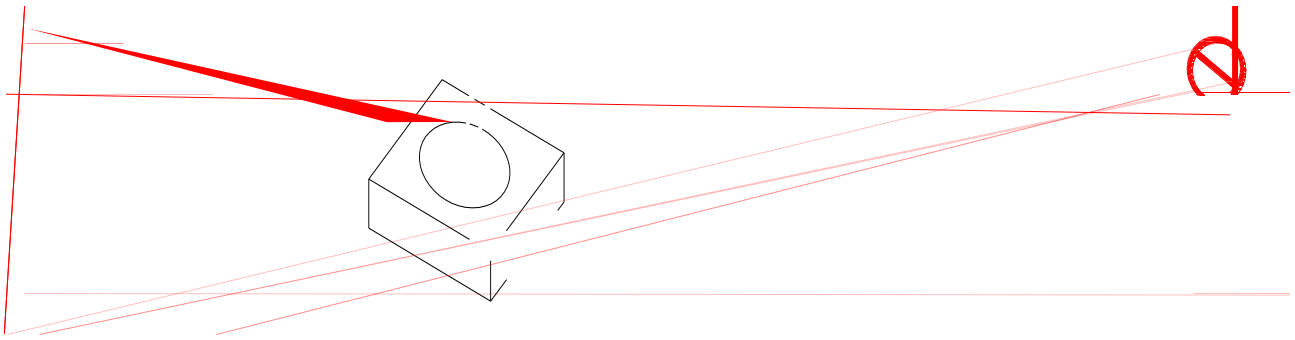
深圳市瑞豐光電子股份有限公司
REFOND SHENZHEN REFOND OPTOELECTRONICS CO.,LTD.

customer PN			
/P.N			
/BIN CODE		/LM	
/VF		/CCT	
/CRI		/QTY	
/N.W		/DATE	

7. Handling Precautions

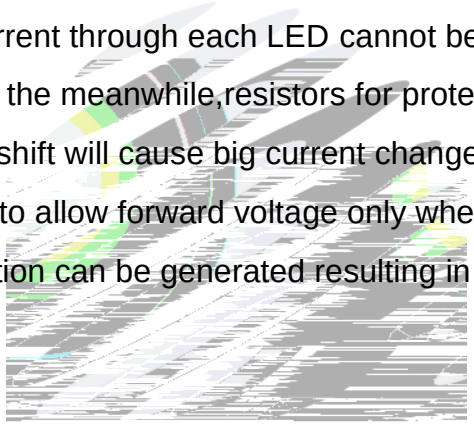


(4) Handle the component along the side surface by using forceps or appropriate tools; do not directlytouch or Handle the silicone lens surface, it may damage the internal circuitry.



(5) In designing a circuit,the current through each LED cannot be exceed the absolute maximum rating specified for each LED. In the meanwhile,resistors for protection should be applied,otherwise slight voltage shift will cause big current change,burn out may happen. The driving circuit must be designed to allow forward voltage only when it is ON or OFF.If the reverse voltage is applied to LED, migration can be generated resulting in LED damage.

LED



LED

(6) Thermal Design is paramount importance because heat generation may result in the Characteristics decline,such as brightness decreased,Color change and so on.Please consider the heat generation of the LEDs when making the system design.LED

LED

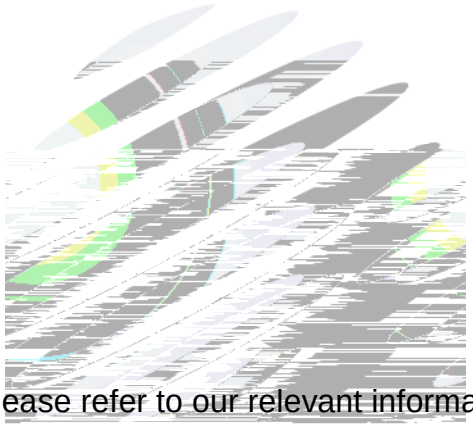
(7) Compared to standard encapsulants, silicone is generally softer, and the surface is more likely to attract dust，requiring special care during processing. In cases where a minimal level of dirt and dust particles cannot be guaranteed, a suitable cleaning solution must be applied to the surface after the soldering of components. Refond suggests using isopropyl alcohol for cleaning. In case other solvents are used, it must be assured that these solvents do not dissolve the package or resin. Ultrasonic cleaning is not recommended. Ultrasonic cleaning may cause

damage to the LED.

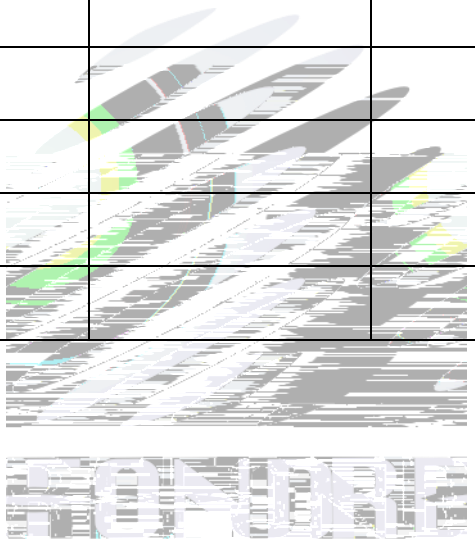
LED

(8)Similar to most Solid state devices; LEDs are sensitive to Electro-Static Discharge (ESD) and Electrical Over Stress (EOS). LED

9>.NO warping or twisting the Light Bar more than 10°. Forbidding holding the LED part or connector part when handling. 10° LED



(10) Other points for attention, please refer to our relevant information.

Version History/

Date	Revisor	Version	Verifier	Remarks
2021-4-13		E/0		The first edition