



Approval Sheet
(確 認 書)

編號 Ref. No.	
日期 Issued Date	2012/1/13

公司名稱 : _____
Company Name

產品編號 : SB-3010IRC-940-01
Part No.

產品種類 : INFRARED EMITTING DIODE
Category

產品描述 : 3mm Infrared emitting Water Clear Lens
Description

客戶產品編號 : _____
Your Part No.

備注 : _____
Remarks

審核結果 (Comments)

Authorized Signature				
客 戶 簽 字				
部 門 Department				
簽 字 Signature				

- 1) 當審批程序完成時，懇請貴客簽字回傳
- 1) Please SIGN and RETURN once the item is approved
- 2) 規格書會作出相應變更而不作另行通知
- 2) Specifications are subject to change without notice
- 3) 版權所有
- 3) All rights reserved.

ISSUER	CHECKER	APPROVER	ENGINEER



PART NO. : SB-3010IRC-940-01

DATE : 13 January 2012

3mm Infrared emitting Water Clear Lens

SPECIFICATION

ABSOLUTE MAXIMUM RATING (Ta=25°C)

Item	Symbol	Rating	Unit
Power Dissipation	P _D	30	mW
Forward Current	I _F	20	mA
Peak Forward Current (1/10 Duty Cycle, 0.1 ms Pulse Width)	I _{FP}	100	mA
Reverse Voltage	V _R	5	V
Operating Temperature	T _{opr}	-40~+80	°C
Storage Temperature	T _{stg}	-40~+80	°C

ELECTRICAL/OPTICAL CHARACTERISTICS RATING (Ta=25°C)

Item	Symbol	Test Condition	Rating			Unit
			Min.	Typ.	Max.	
Forward Voltage	V _F	I _F =20mA	1.0	---	1.5	V
Radiated Output Power	P _O	I _F =20mA	10	---	40	mW/Sr
Reverse Current	I _R	V _R =5V	---	---	10	μA
Dominant Wave Length	λ _d	I _F =20mA	---	940	---	nm
Viewing Angle 2θ _{1/2}	2θ _{1/2}	I _F =20mA	35°			deg.

Notes:-

1) θ_{1/2} is the off-axis angle where the luminous intensity is half the optical centerline value.

Soldering Conditions : Soldering Temp. ≤ 260°C

Soldering Time ≤ 5 Sec.



Caution

: **ESD** protection measures shall be considered and taken in the initial design stage, because static electricity and surge could damage the LED. A wrist band or an anti-electrostatic glove should be used when handling **Electrostatic Sensitive Devices**.

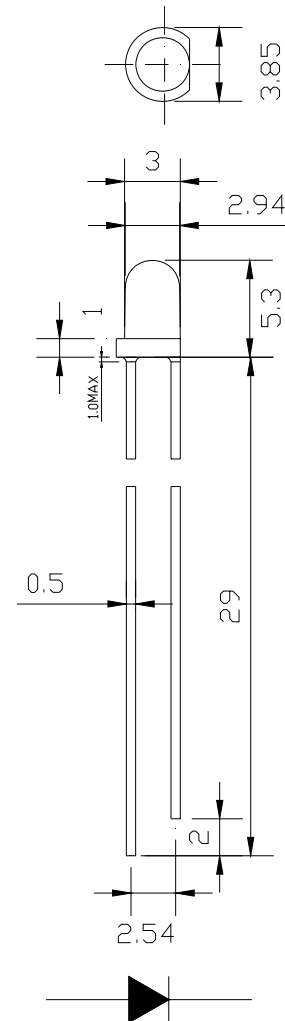
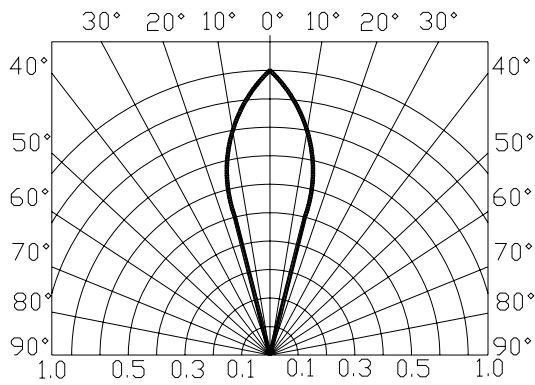


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PACKAGE DIMENSION



Item	Materials
Resin(Mold)	Epoxy Resin
Lead Frame	Copper Alloy

Pin : ± 1.0
Unit: mm

Part Number	Emitting Color	Lens Type
SB-3010IRC-940-01	Infrared emitting	Water Clear

NOTE :

1. All dimensions are in millimeter Unit : mm.
2. Soldering Conditions : Soldering Temp:**260°C** 1/16 Inch below Seating place for 5 seconds.
3. ESD Bag : **1000**pcs/bag



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Typical Electrical/Optical Characteristics Curves

Fig 1 I_F - V_F

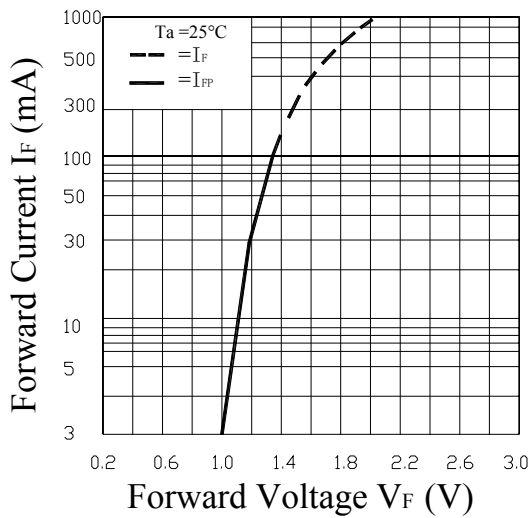


Fig 2 I_E - I_F

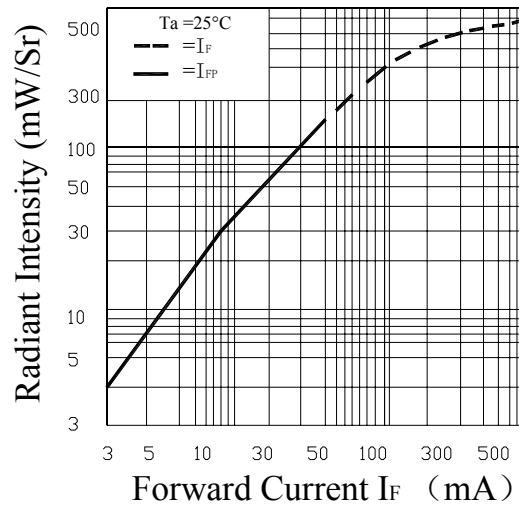


Fig 3 I_F - T_a

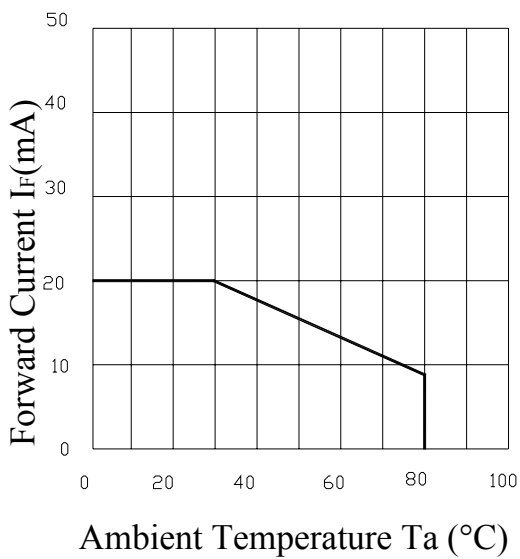


Fig 4 Spectrum Distribution

