

1.6mm Side Looking Infrared Emitting Diode IR968-8P



Features

- Low forward voltage
- Peak wavelength $\lambda_p=940\text{nm}$
- High reliability
- This product itself will remain within RoHS compliant version.

Description

- The IR968-8P is a GaAlAs infrared emitting diode. The miniature side-facing device is a chip that emits radiation from the side of the pink clear package.

Applications

- VCR
- Floppy disk drive
- Automatic stroboscope
- Cassette type recorder
- Optoelectronic switch
- Photo interrupter

Device Selection Guide

Chip Materials	Lens Color
GaAlAs	pink

Absolute Maximum Ratings (Ta=25℃)

Parameter	Symbol	Rating	Unit
Continuous Forward Current	I_F	50	mA
Peak Forward Current(*1)	I_{FP}	500	mA
Reverse Voltage	V_R	5	V
Operating Temperature	T_{opr}	-40 ~ +85	
Storage Temperature	T_{stg}	-40 ~ +100	
Soldering Temperature	T_{sol}	260	
Power Dissipation at (or below) 25℃ Free Air Temperature	P_d	75	mW

Notes: *1: I_{FP} Conditions--Pulse Width 100μs and Duty 1%.

Electro-Optical Characteristics (Ta=25 °C)

Parameter	Symbol	Min	Typ	Max	Unit	Condition
Collector Current	I _{c(on)}	465	-	1274	μA	I _F =4mA, V _{CE} =3.5V
Peak Wavelength	λ _p	-	940	-	nm	I _F =20mA
Spectral Bandwidth	λ	-	45	-	nm	I _F =20mA
View Angle	2θ1/2	-	25	-	Deg	I _F =20mA
Forward Voltage	V _F	-	1.2	1.5	V	I _F =20mA
Reverse Current	I _R	-	-	10	μA	V _R =5V

Rank

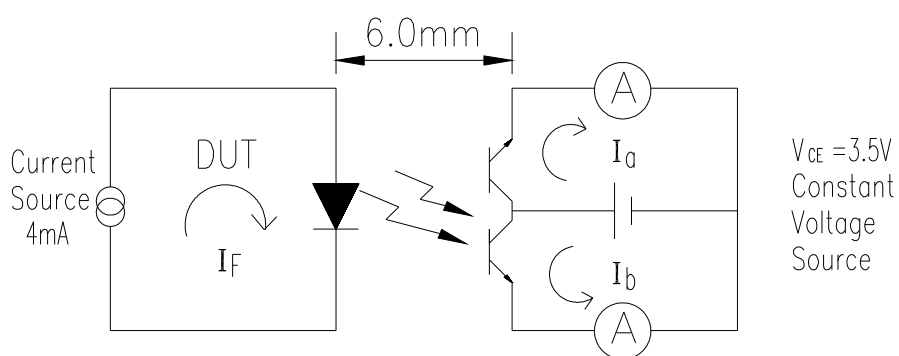
Unit : μA

Parameter	Symbol	Min	Max	Unit	Test Condition
6-1	I _{c(ON)}	650	1274	μA	I _F =4mA, V _{CE} =3.5V
6-2	I _{c(ON)}	465	750	μA	I _F =4mA, V _{CE} =3.5V

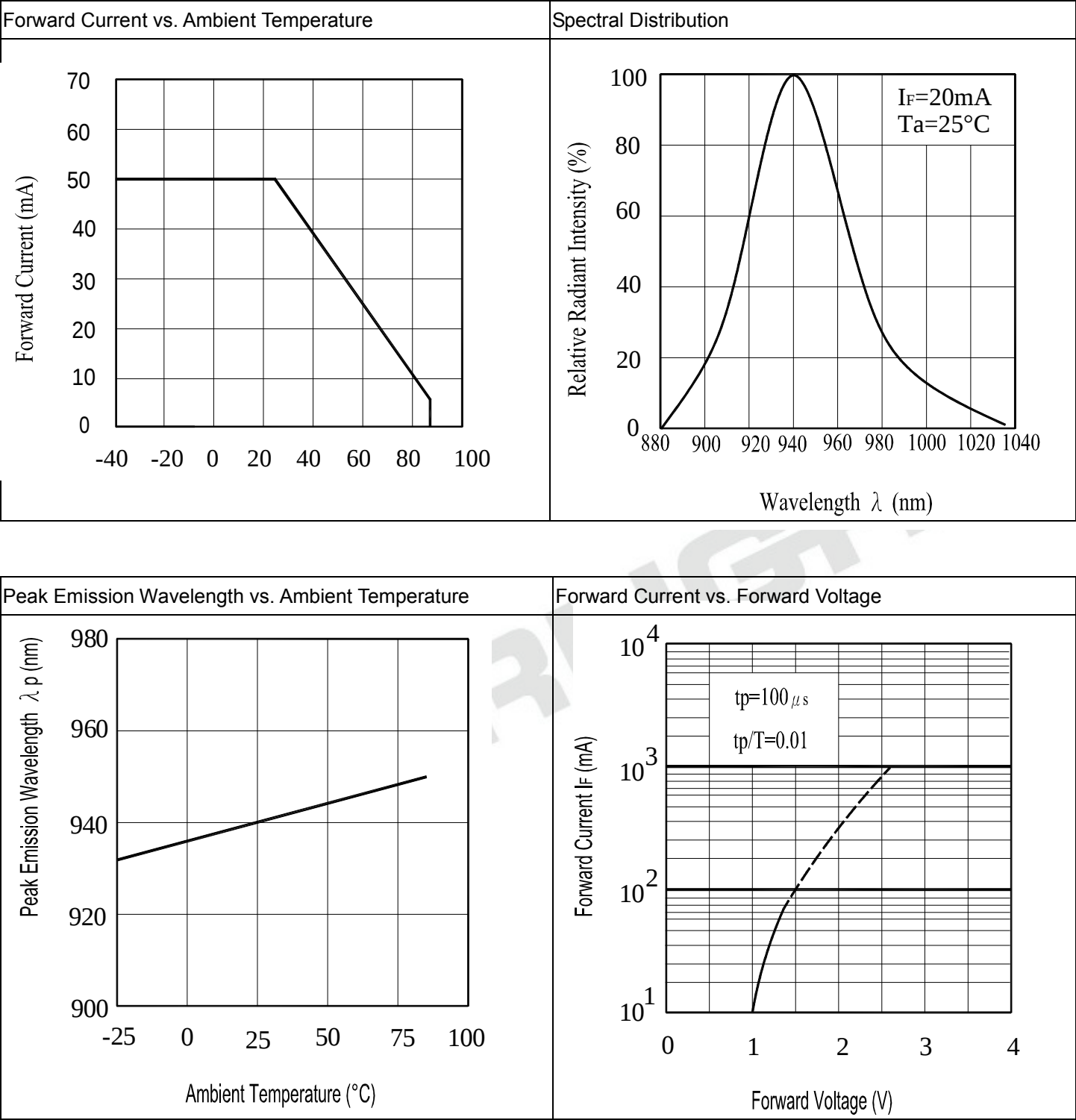
Test Method For I_{c(ON)}:

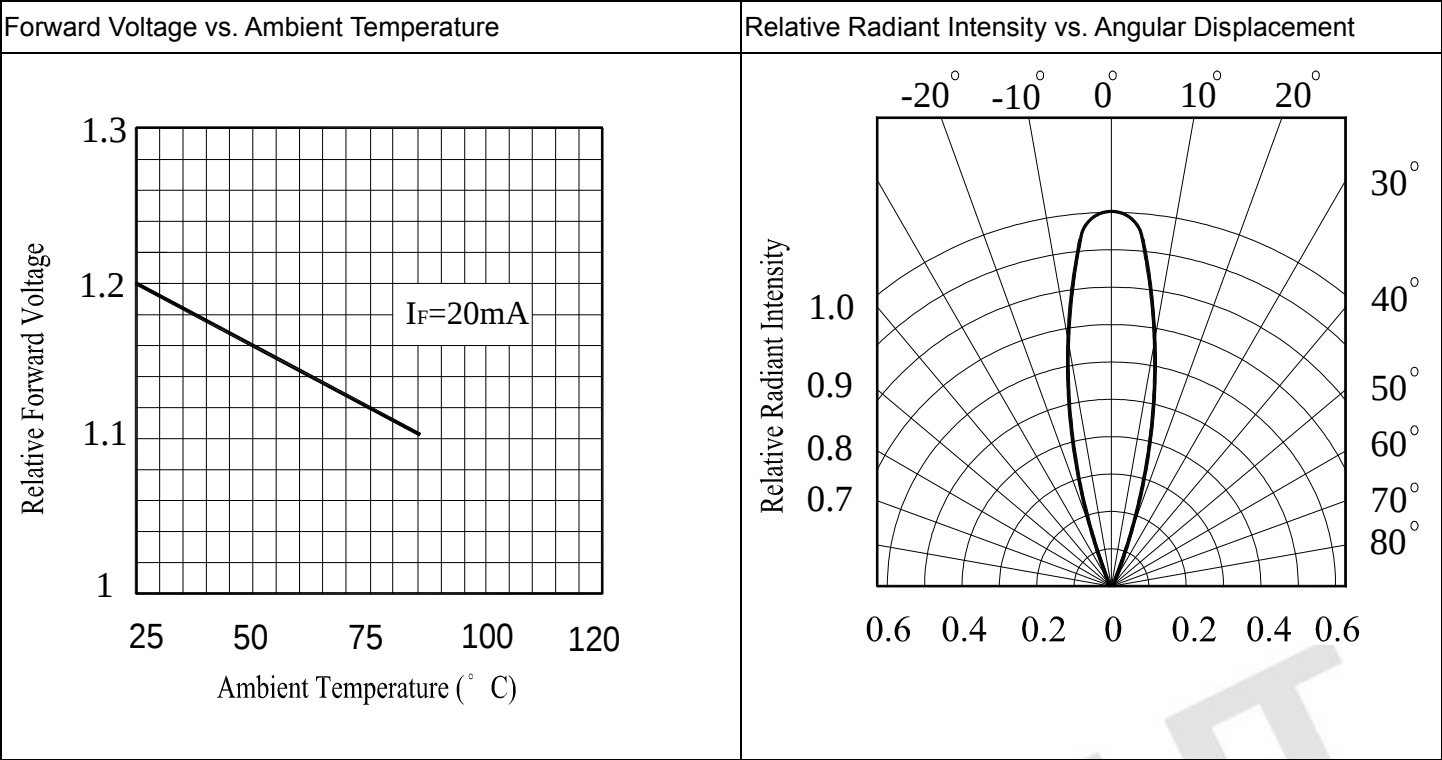
Condition: I_F=4mA, V_{CE}=3.5V

The intensity testing method of Infrared emitting diode:

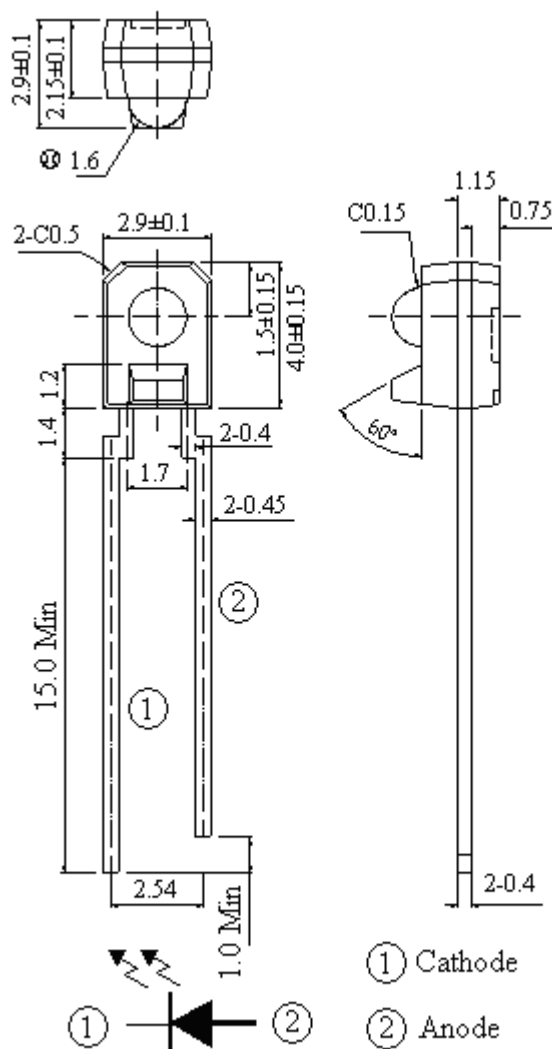


Typical Electro-Optical Characteristics Curves





Package Dimension



Note: Tolerances unless dimensions $\pm 0.25\text{mm}$

Packing Quantity Specification

1. 1000PCS/1Bag,8Bag/1Box
2. 10Boxes/1Carton

Label Form Specification

CPN:
P/N:
IR968-8C
QTY:
LOT NO:
Reference

RoHS

CAT:
HUE:
REF:

- CPN: Customer's Product Number
- P/N: Product Number
- QTY: Packing Quantity
- CAT: Luminous Intensity Rank
- HUE: Dom. Wavelength Rank
- REF: Forward Voltage Rank
- LOT No: Lot Number
- X: Month
- Reference: Identify Label Number

Notes

1. Above specification may be changed without notice. EVERLIGHT will reserve authority on material change for above specification.
2. When using this product, please observe the absolute maximum ratings and the instruction for using outlined in these specification sheets. EVERLIGHT assumes no responsibility for any damage resulting from use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.
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