

EAISZ2520A0

Features:

Small double-end package

Low forward voltage

View angle 2Q°

Peak wavelength $\lambda_p=875\text{nm}$

High reliability

Description:

EAISZ2520 is an infrared emitting diode in miniature SMD package witch is molded in a water clear plastic with spherical top view lens. The spectrally device is matched with silicon photo diode and photo transistor.

Applications:

Floppy disk drive

Optoelectronic switch

Smoke detector

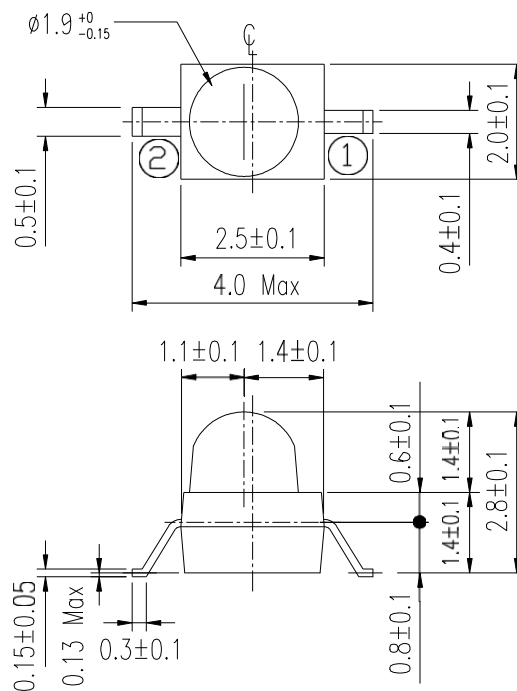
Camera

VCR

Video

PART NO.	CHIP	LENS COLOR
	MATERIAL	
EAISZ2520A0	GaAIAs	Water Clear

• Package Dimensions :



• Notes :

1. All dimensions are in millimeter.
2. General Tolerance: ± 0.1 mm
3. Lens color: Water clear.
4. Above specification may be changed without notice. EVERLIGHT will reserve authority on material change for above specification.
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6. When using this product , please observe the absolute maximum ratings and the instructions for use 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.

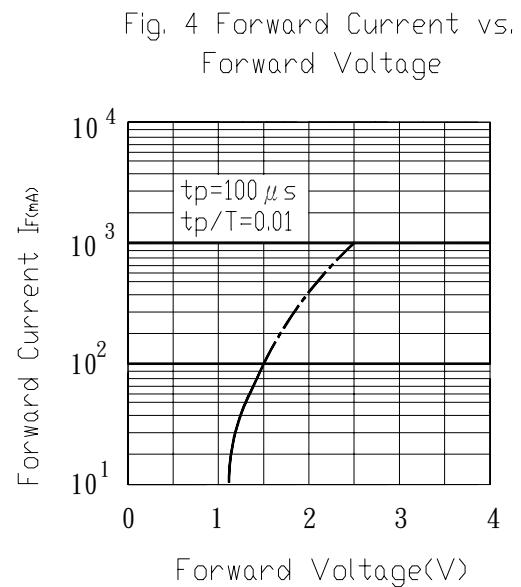
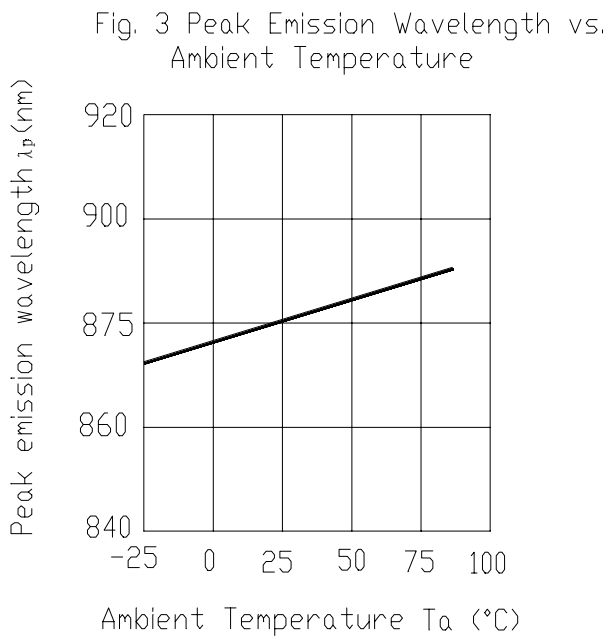
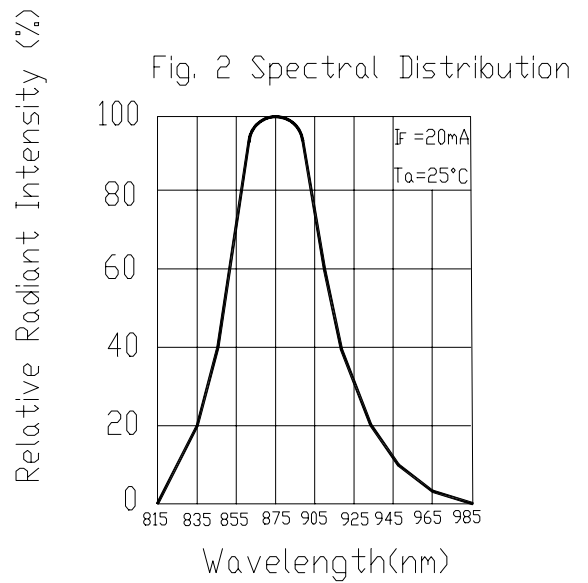
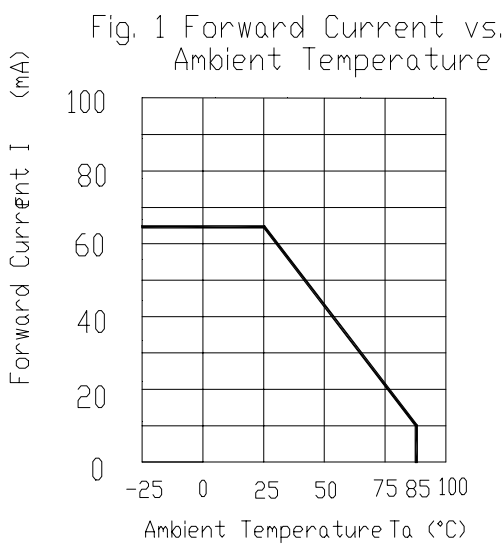
‡Absolute Maximum Ratings at T_A = 25°C

		F			
μ	%	FP			
		R			
				°C	
				°C	
				°C	
°C				mW	

Electronic Optical Characteristics :

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Radiant Intensity						F
						F μ P
						F μ P
PeaT Wavelength	λ_p					F
Spectral Bandwidth	$\Delta \lambda$					F
Forward Voltage	F					F
						F μ P
						F μ P
Reverse Current	R				μ	R
View Angle	Θ					F

Typical Electrical/Optical/Characteristics Curves



Typical Electrical/Optical/Characteristics Curves

Fig. 5 Relative Intensity vs. Forward Current

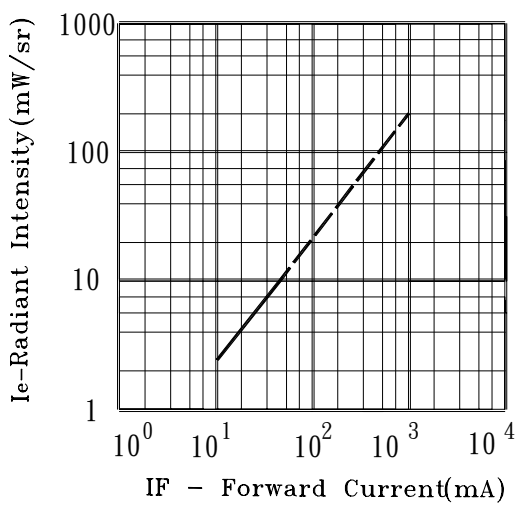


Fig. 6 Relative Radiant Intensity vs. Angular Displacement

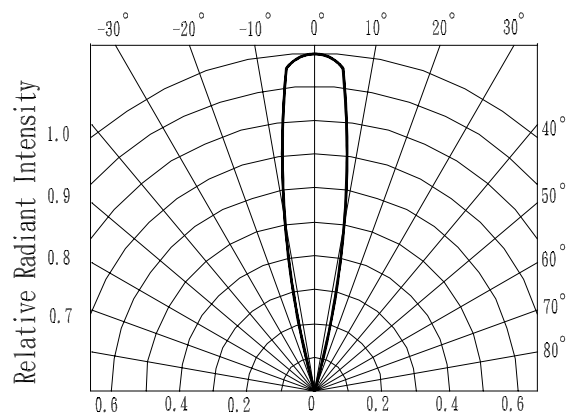


Fig. 7 Relative Intensity vs. Ambient Temperature ($^\circ\text{C}$)

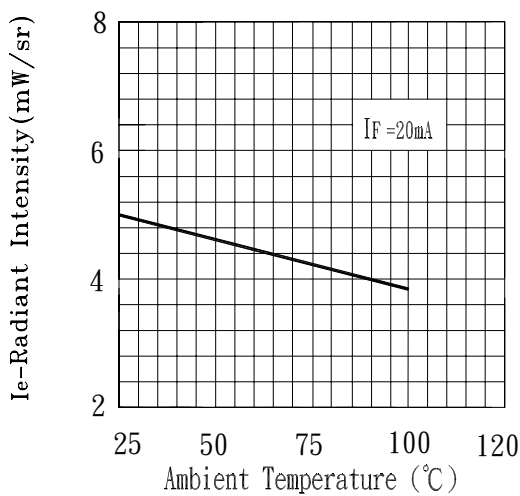
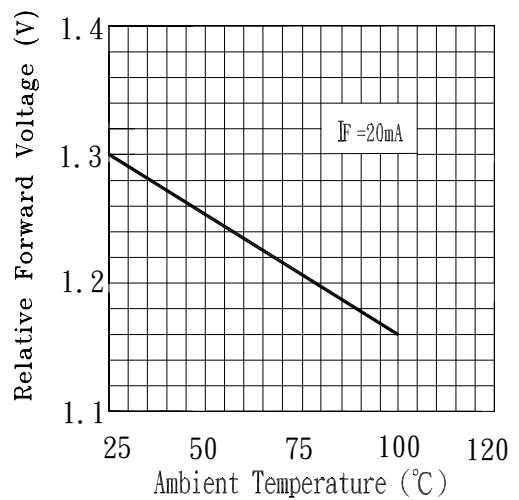


Fig. 8 Forward Current vs. Ambient Temperature ($^\circ\text{C}$)



Reliability Test Item And Condition

The reliability of products shall be satisfied with items listed below.

Confidence level:90%

LTPD:10%

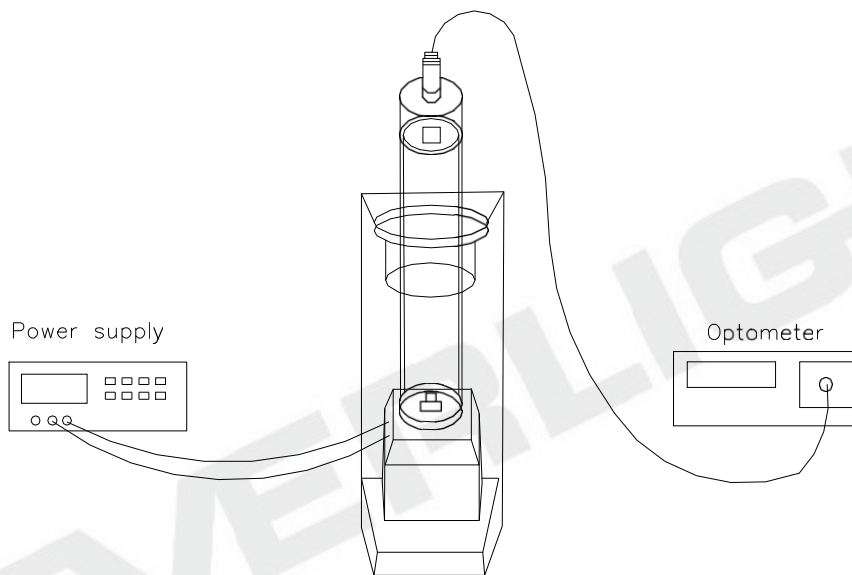
NO.	Item	Test Conditions	Test Hours/ Cycles	Sample Size	Failure Judgement Criteria	Ac/Re
1	REFLOW	TEMP : 240 ± 5 5 secs	6 Mins	22 pcs	More than 90% of lead to be covered by soldering	0/1
2	Temperature Cycle	H : +85C 30mins ↕ 5 mins ↕ L : -55C 30mins	50 cycles	22 pcs	$I_R > U \times 2$ $E_e < L \times 0.8$ $V_F > U \times 1.2$	0/1
3	Thermal Shock	H : +100C 5 mins ↕ 10 secs ↕ L : -10C 5 mins	50 cycles	22 pcs	U :Upper specification limit L :Lower specification limit	0/1
4	High Temperature Storage	TEMP. : +100C	1000 hrs	22 pcs		0/1
5	Low Temperature Storage	TEMP. : -55C	1000 hrs	22 pcs		0/1
6	DC Operating Life	$I_F = 20\text{mA}$	1000 hrs	22 pcs		0/1
7	High Temperature / High Humidity	85C 85% R.H.	1000 hrs	22 pcs		0/1

Test Method For Power :

Condition : $I_F=20$ mA

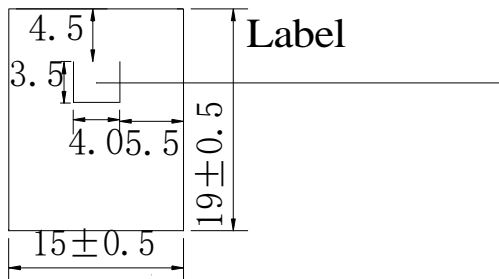
Test Item : Radiant Intensity

Unit : mW/sr

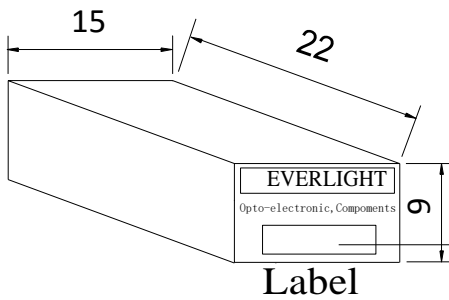


Packing Specifications

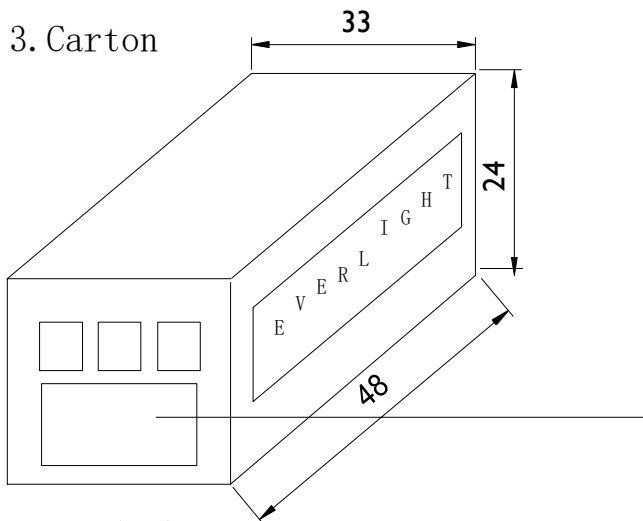
I. Bag



2. Box



3. Carton



UNIT:cm

EVERLIGHT

CPN:

P/N:



EAISZ2520A0

QTY:

CAT:

HUE:



LOT NO:

MADE IN TAIWAN

CPN : Customer's Production Number

P/N : Production Number

QTY : Packing Quantity

CAT : Ranks

HUE : Peak Wavelength

REF : Reference

LOT NO : Lot Number

MADE IN TAIWAN : Production place

Packing Quantity Specification

1.1000 Pcs/1Bag,20 Bags/1Box

2.10Boxes/1Carton