DATASHEET

HIR67-21C/L11/TR8

Features

- Peak wavelength λp=850nm.
- Low forward voltage.
- Compatible with infrared and vapor phase reflow solder process.
- Package in 8mm tape on 7" diameter reels.
- Pb free
- The product itself will remain within RoHS compliant version.

Description

- HIR67-21C/L11/TR8 is an infrared emitting diode in miniature SMD package which is molded in a water clear plastic with flat top view lens.

- The device is spectrally matched with silicon photodiode and phototransistor.

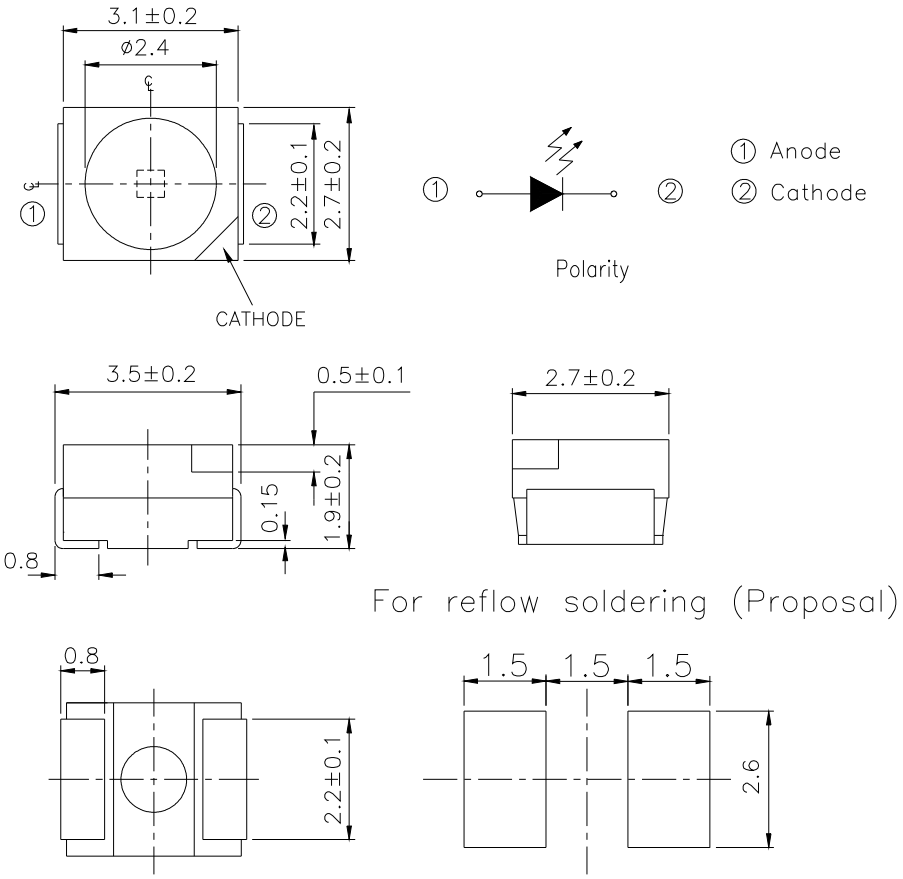
Applications

- Floppy disk drive
- Optoelectronic switch
- Camera
- VCR
- Video
- Smoke detector

Device Selection Guide

Device No.	Chip Material	Lens Color
HIR67-21C/L11/TR8	GaAlAs	Water clear

Package Dimensions



Notes: 1.All dimensions are in millimeters
2.Tolerances unless dimensions ±0.1mm

Absolute Maximum Ratings (Ta=25℃)

Parameter	Symbol	Rating	Unit
Continuous Forward Current	I_F	65	mA
Reverse Voltage	V_R	5	V
Operating Temperature	T_{opr}	-40 ~ +100	℃
Storage Temperature	T_{stg}	-40 ~ +100	℃
Soldering Temperature *1	T_{sol}	260	℃
Power Dissipation at(or below) 25℃ Free Air Temperature	P_d	130	mW

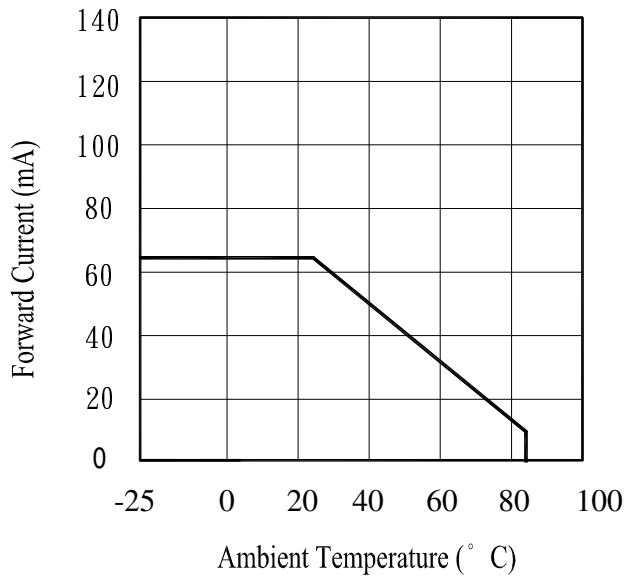
Notes: *1:Soldering time≦5 seconds.

Electro-Optical Characteristics (Ta=25℃)

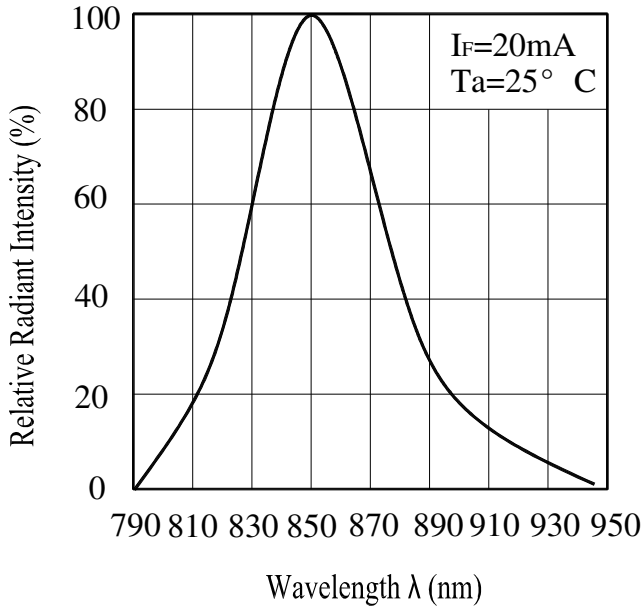
Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Radiant Intensity	Ie	1.0	2.0	--	mW /sr	I_F=20mA
		--	10	--		. I_F=100mA Pulse Width≦100 μs ,Duty≦1%
Peak Wavelength	λp	--	850	--	nm	I_F=100mA
Spectral Bandwidth	Δλ	--	45	--	nm	I_F=100mA
Forward Voltage	V_F	--	1.45	1.65	V	I_F=20mA
		--	1.80	2.40		I_F=100mA Pulse Width≦100 μs ,Duty≦1%
Reverse Current	I_R	--	--	10	μA	V_R=5V
View Angle	2θ1/2	--	120	--	deg	I_F=20mA

Typical Electrical/Optical/Characteristics Curves for IR

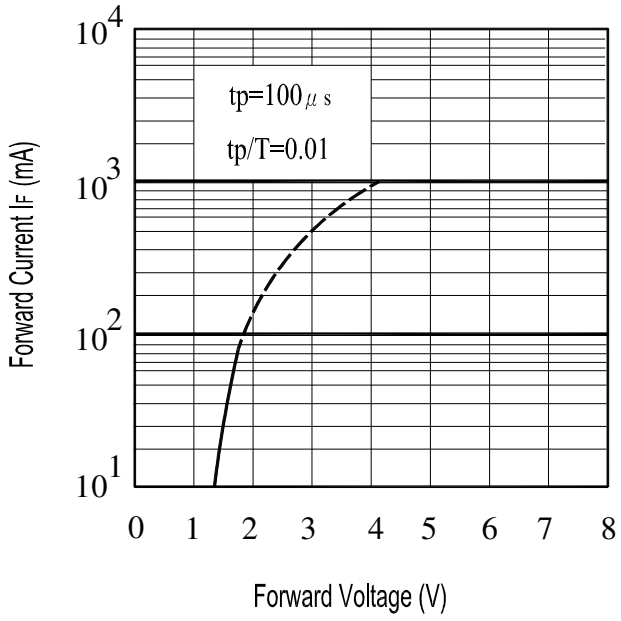
Power Dissipation vs. Ambient Temperature



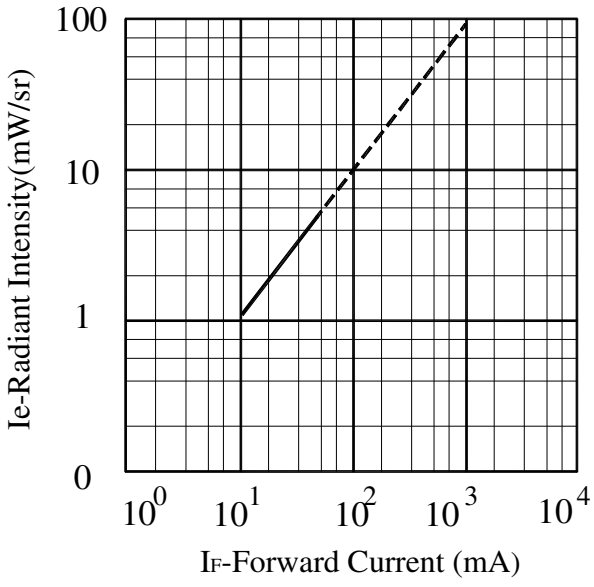
Spectral Distribution



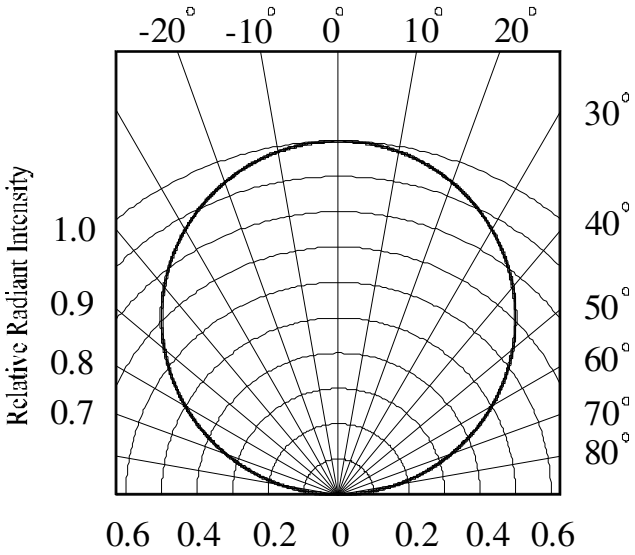
Forward Current vs. Forward Voltage



Relative Intensity vs. Forward Current



Relative Radiant Intensity vs. Angular Displacement



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