

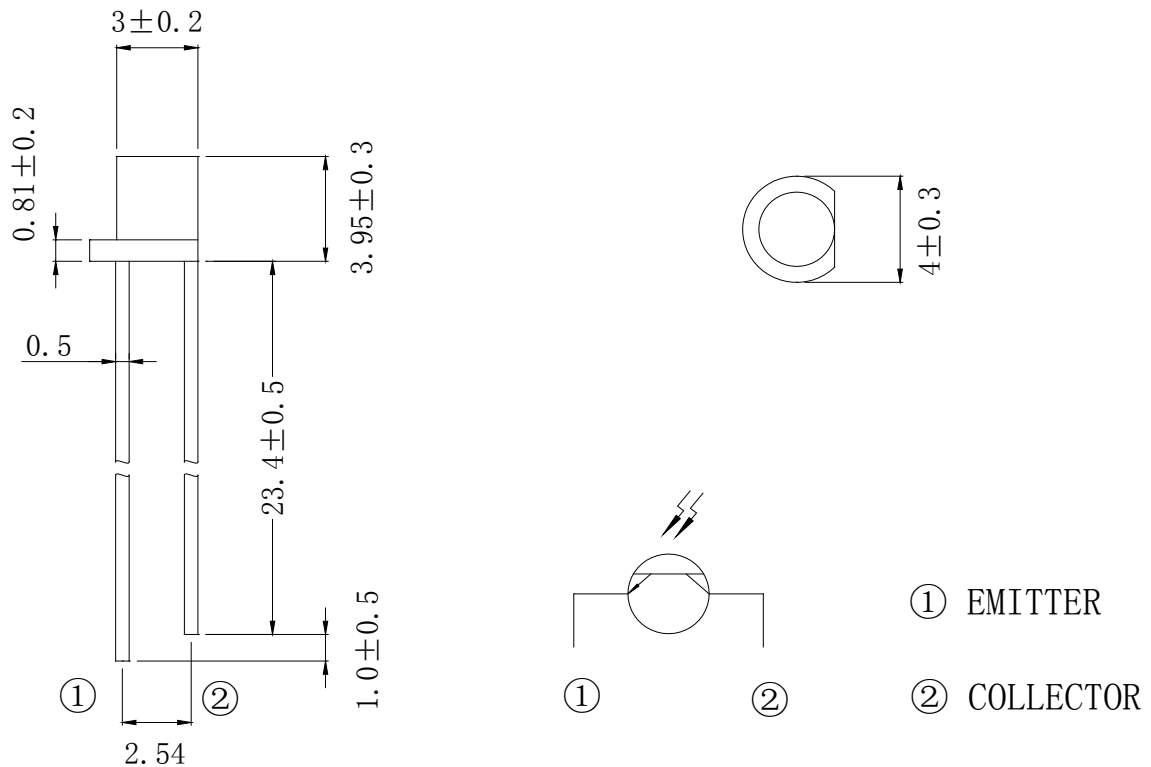
Features

- 3mm IR LED
- Wide Range Of Collector Current
- Lensed for high sensitivity.
- Low cost plastic side looking package.
- Clear transparent color package.
- Meet ROHS Green Product
- Package: 1000pcs/pack

Applications

- Receiver

Package Dimensions



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.25mm(.01") unless otherwise noted.
3. Specifications are subject to change without notice
4. This drawing is only for reference,not as a basis for the actual structure.



Selection Guide

Part No	Lens Type	Dice	Emitted Color
FDI-3391R850-TWCL	Water Clear	-	-

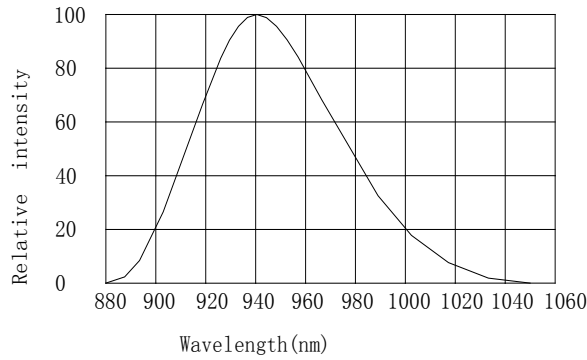
Electrical / Optical Characteristics At Ta=25 °C

Symbol	Parameter	Min.	Typ.	Max.	Unit	Test Condition
V _{BR CEO}	Collector to Emitter Breakdown Voltage	12			V	I _C =1mA E _e =0mW/cm ²
V _{BR ECO}	Emitter to Collector Breakdown Voltage	5			V	I _E =100 μ A E _e =0mW/cm ²
V _{CE(SAT)}	Collector to Emitter Saturation Voltage			0.4	V	I _E =100 μ A E _e =1mW/cm ²
T _R	Rise Time(10% to 90%)		20		μ s	V _{CC} =5V I _C =1mA R _L =1K Ω
T _F	Fall Time(90% to 10%)		20		μ s	
I _{CEO}	Collector Dark Current			100	nA	V _{CE} =10V E _e =0mW/cm ²
I _{C(ON)}	On State Collector Current		5		mA	V _{CE} =5V E _e =1mW/cm ²
λ P	Peak Emission Wavelength		850		nm	
△λ	Spectral Line Half Width	800		1300	nm	

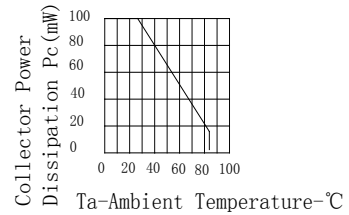
Absolute Maximum Ratings At Ta=25°C

Parameter	Maximum Rating	Unit
Power Dissipation	100	mW
Collector to Emitter Voltage	30	V
Emitter to Collector Voltage	5	V
Operating Temperature Range	-45°C to + 85°C	
Storage Temperature Range	-55°C to + 105°C	
Soldering Condition	260°C For 10 Seconds	

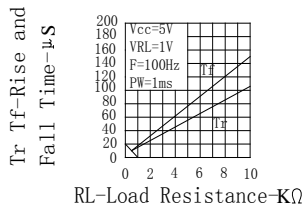
Electrical Optical Characteristics Curves At Ta=25 °C



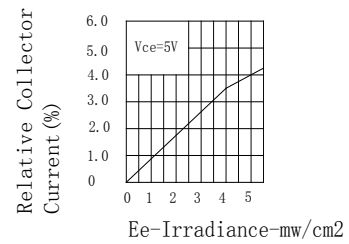
Relative Intensity vs. Wavelength



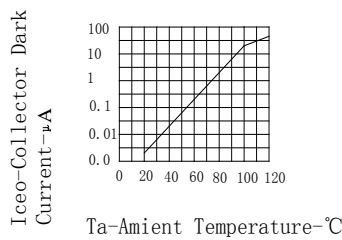
Collector Power Dissipation vs. Ambient Temperature



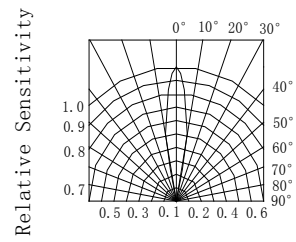
Rise And Fall Time vs. Load Resistance



Relative Collector Current vs. Irradiance



Collector Dark Current vs. Ambient Temperature



Sensitivity Diagram