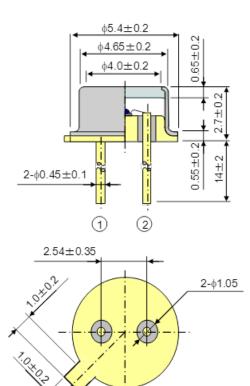
Data Sheet

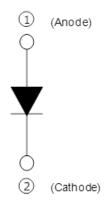
HE8811

GaAlAs Infrared Emitting Diodes

Outline



Internal Circuit



Features

* 45°±5°

• Peak wavelength: 820nm typ

(Unit: mm)

- High output, high efficiency
- Narrow spectral width
- Wide radiation directivity
- High reliability

Application

- Distance meter
- Photoelectric sensor
- Metering equipment

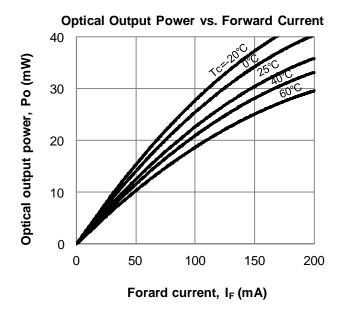
Absolute Maximum Ratings (Tc=25°C)

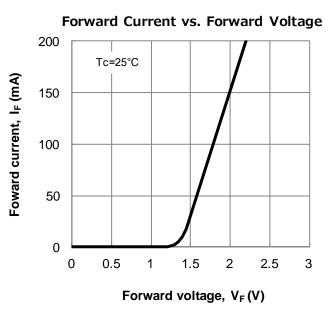
Item	Symbol	Ratings	Unit
Forward current	I _F	200	mA
Reverse voltage	V _R	3	V
Operating temperature	Topr	-20 ~ 60	°C
Storage temperature	Tstg	-40 ~ 90	°C

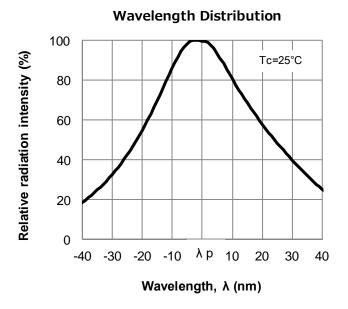
Optical and Electrical Characteristics (Tc=25°C)

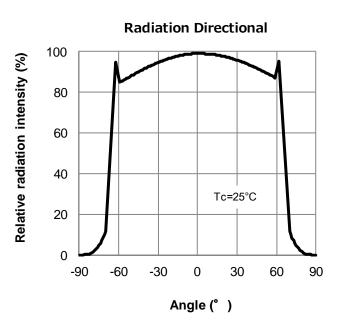
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Optical output power	Ро	20	30	-	mW	I _F =150mA
Peak wavelength	λр	780	820	900	nm	I _F =150mA
Spectral width	Δλ	-	50	60	nm	I _F =150mA
Forward voltage	V _F	-	2.0	2.5	V	I _F =150mA
Reverse current	I _R	-	-	100	μA	V _R =3V
Capacitance	Ct	-	10	-	pF	V _R =0V, f=1MHz
Rise time	tr	-	5	-	ns	I _F =50mA
Fall time	tf	-	7	-	ns	I _F =50mA

Typical Characteristic Curves









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