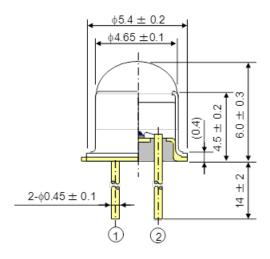
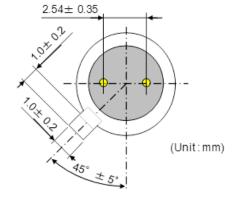
HE8807FL

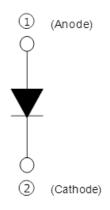
GaAlAs Infrared Emitting Diodes

Outline





Internal Circuit



Features

- Peak wavelength: 880nm typ
- High output, high efficiency
- Narrow spectral width
- Wide radiation directivity
- High reliability

Application

- Encoder
- Photoelectric sensor
- Automatic apparatus
- 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 ~ 85	°C
Storage temperature	Tstg	-40 ~ 100	°C

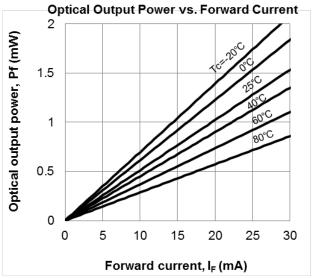
Optical and Electrical Characteristics (Tc=25°C)

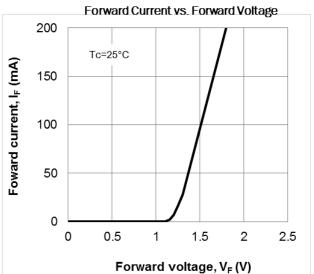
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Optical output power	Pf*	0.5	1.0	-	mW	I _F =20mA
Peak wavelength	λр	800	880	900	nm	I _F =150mA
Spectral width	Δλ	-	30	60	nm	I _F =150mA
Forward voltage	V _F	-	1.7	2.3	V	I _F =150mA
Reverse current	I _R	-	-	100	μA	V _R =3V
Capacitance	Ct	-	10	-	pF	V _R =0V, f=1MHz
Rise time	tr	-	20	-	ns	I _F =50mA
Fall time	tf	-	20	-	ns	I _F =50mA

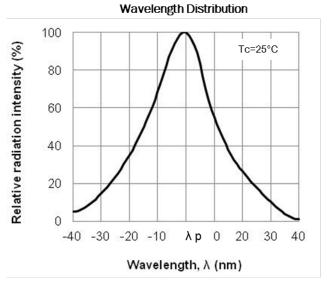
Note: The optical output within 9 degrees of the acceptance angle.

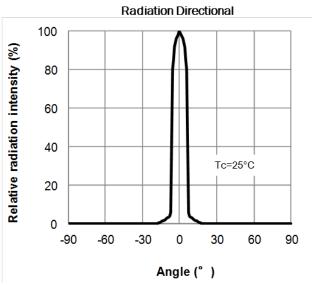


Typical Characteristic Curves











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