

OKI electronic components

OE306G

1.3 μm Edge-Emitting LED

GENERAL DESCRIPTION

The OE306G is a 1.3 μm , edge-emitting LED which can be light sources for optical LAN systems and measuring instruments.

FEATURES

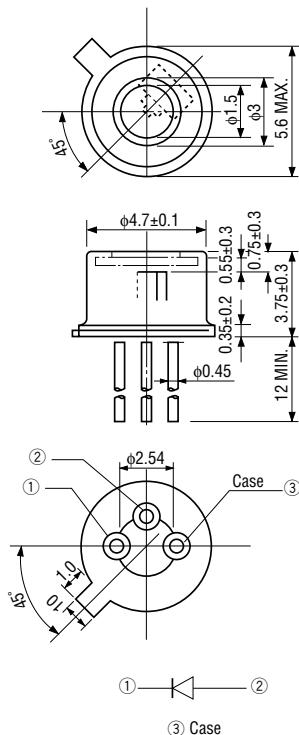
- Edge-emitting type
- High coupled power: 40 μW into a 10 μm core single-mode fiber
 : 80 μW into a 50 μm core multimode fiber
- High speed

APPLICATIONS

- LANs
- Optical instruments
- Data communication systems

PACKAGE DIMENSIONS (Unit: mm)

• OE306G



ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Test Conditions	Ratings	Unit
Forward Current	I_F	$T_a=25^\circ C$	150	mA
Reverse Voltage	V_R		1	V
Operating Temperature	T_{opr}	—	-10 to +65	°C
Storage Temperature	T_{stg}	—	-40 to +90	°C

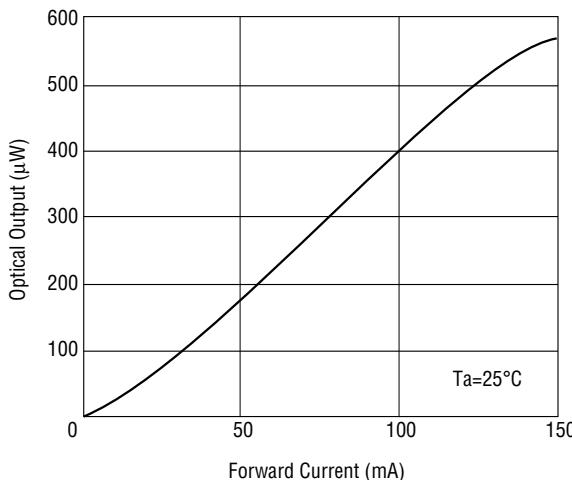
OPTICAL AND ELECTRICAL CHARACTERISTICS

(Ta=25°C)

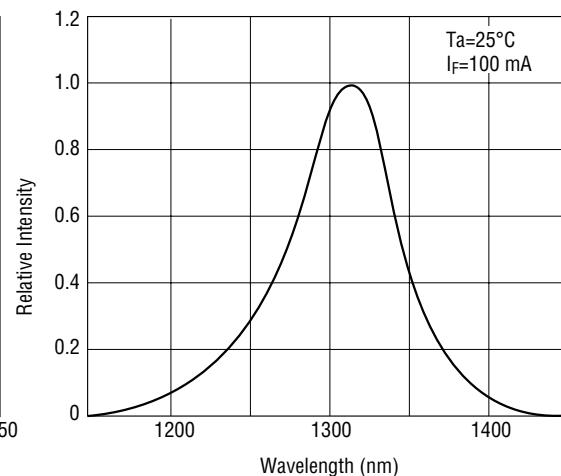
Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Optical Output	P_o	$I_F = 100$ mA	300	400	—	μW
Forward Voltage	V_f	$I_F = 100$ mA	—	—	2.0	V
Peak Wavelength	λ_p	$I_F = 100$ mA	1270	1300	1330	nm
Spectral Half Width	$\Delta\lambda$	$I_F = 100$ mA	—	60	100	nm
Cutoff Frequency	f_c	$I_F = 100$ mA +20 mAp-p -1.5 dB	—	150	—	MHz

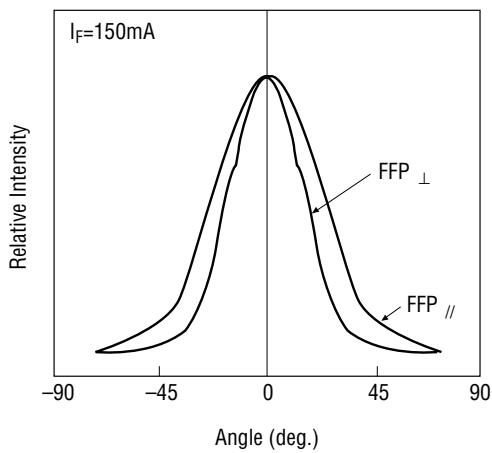
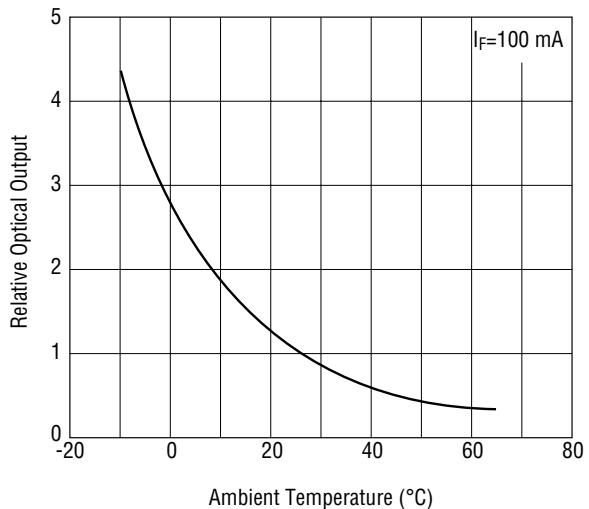
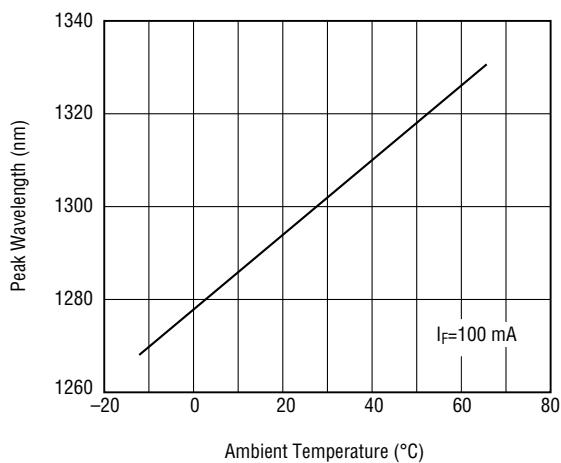
TYPICAL CHARACTERISTICS

Optical Output vs. Forward Current



Emission Spectrum



Far-Field Patterns**Temperature Dependence of Optical Output****Temperature Dependence of Peak Wavelength****Frequency Response**