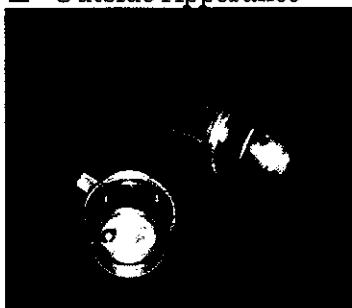


E1L5M-3POAP-02

Outside Apperance



Construction Flat window type

- Applications
 - Deodorizer : With photo catalyst
 - White light : With RGB Phosphor
 - Light source for sensor

Absolute Maximum Ratings (Ta=25°C)

Item	Symbol	Value	Unit
Power Dissipation	P_D	120	mW
DC Forward Current	I_F	30	mA
Pulsed Forward Current	I_{FP}	100※1	mA
Reverse Current	I_R	100※2	mA
Operating Temperature	T_{OPR}	-30~+80	°C
Storage Temperature	T_{STG}	-40~+100	°C

(※1) I_{FP} : Pulse Width ≤ 10 msec. Duty ratio $\leq 1/10$

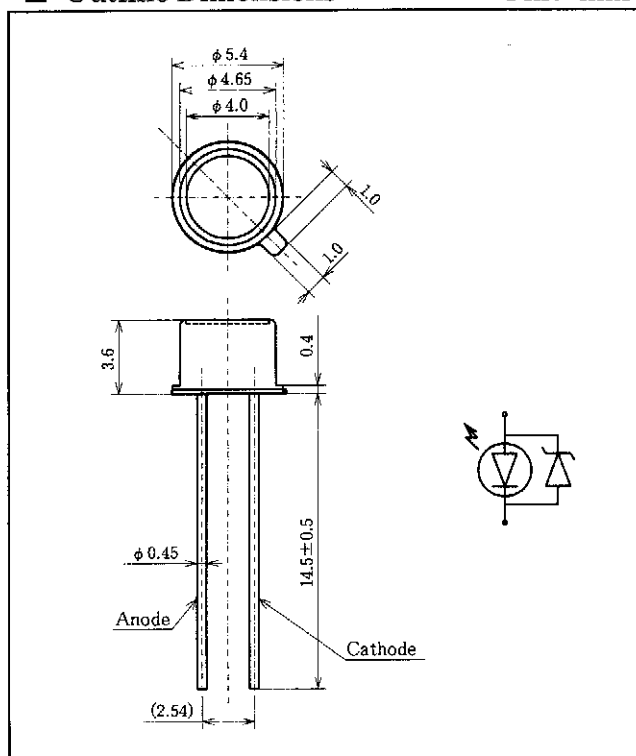
(※2) Absolute maximum ratings of Zenor Diode

Electrical-Optical Characteristics (Ta=25°C)

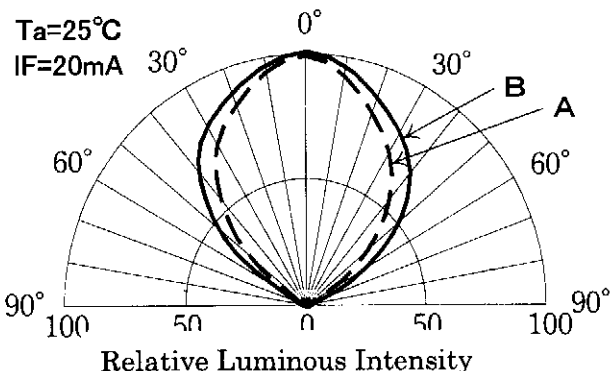
Item	Symbol	Test condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	IF=20mA	—	3.7	—	V
Optical Power	P_O	IF=20mA	—	A:1.0	—	mW
			—	B:1.7	—	mW
Peak-Emission Wavelength	λ_P	IF=20mA	—	385	—	nm
Spectral Line Half Width	$\Delta\lambda$	IF=20mA	—	20	—	nm

Outline Dimensions

Unit : mm



Directive Characteristics



Caution

Caution



- This product emits ultraviolet rays, which may damage the retina and the other organ. Precautions in use below must be complied especially when unshielded eye could be confronted.
- ① Do not look directly at the LED when it is operating.
- ② Direct radiation must be shielded with protective glasses and clothes.
- ③ Keep small children apart from the LED.

Toyoda Gosei Co., LTD.

Opto-Electronics Sales Division

Phone:+81-567-46-2768 FAX:+81-567-46-2740 or4379

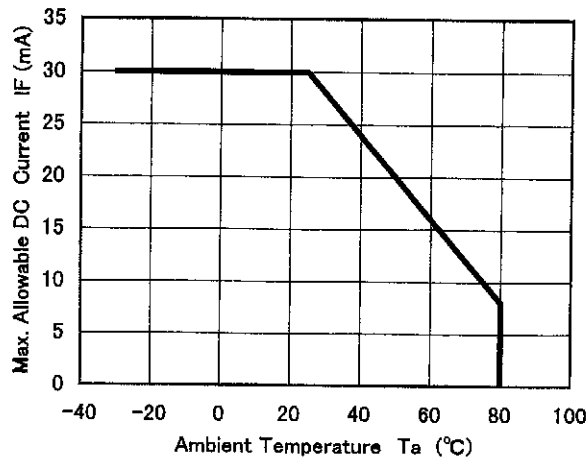
710 Origuchi, Shimomiyake, Heiwa-cho, Nakashima-gun, Aichi-ken, Japan 490-1312

<http://www.toyoda-gosei.co.jp>

E1L5M-3P0AP-02

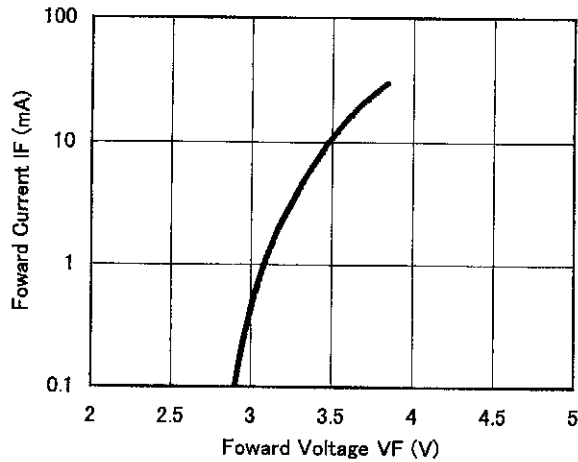
許容電流

Max. Allowable DC Current vs. Ambient Temperature



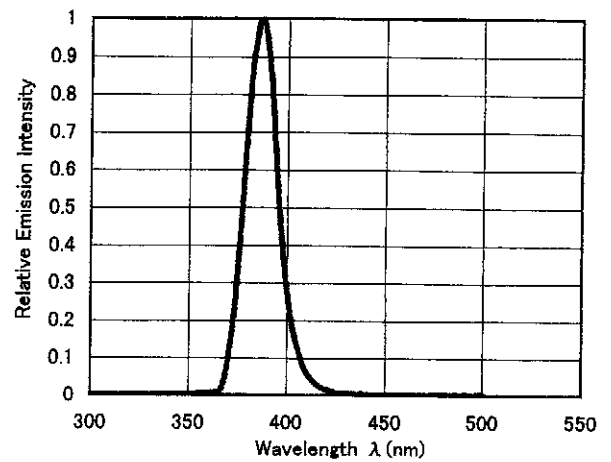
電流－電圧特性

Forward Current vs. Forward Voltage



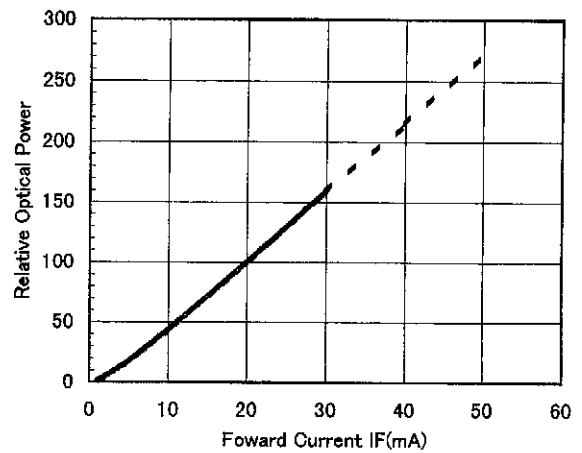
代表特性 Typical Characteristics

■発光スペクトル分布 Spectral Characteristics



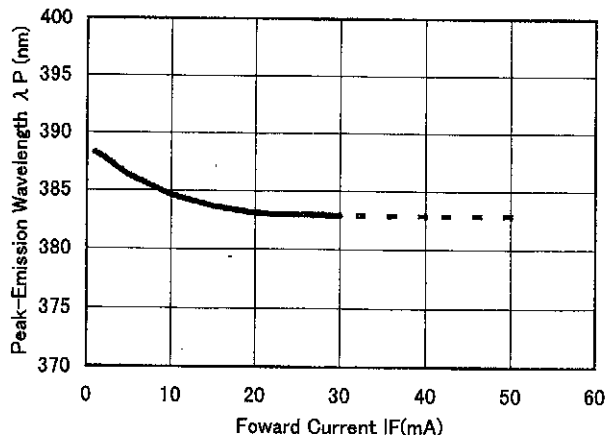
■光出力－電流特性

Relative Optical Power vs. Forward Current



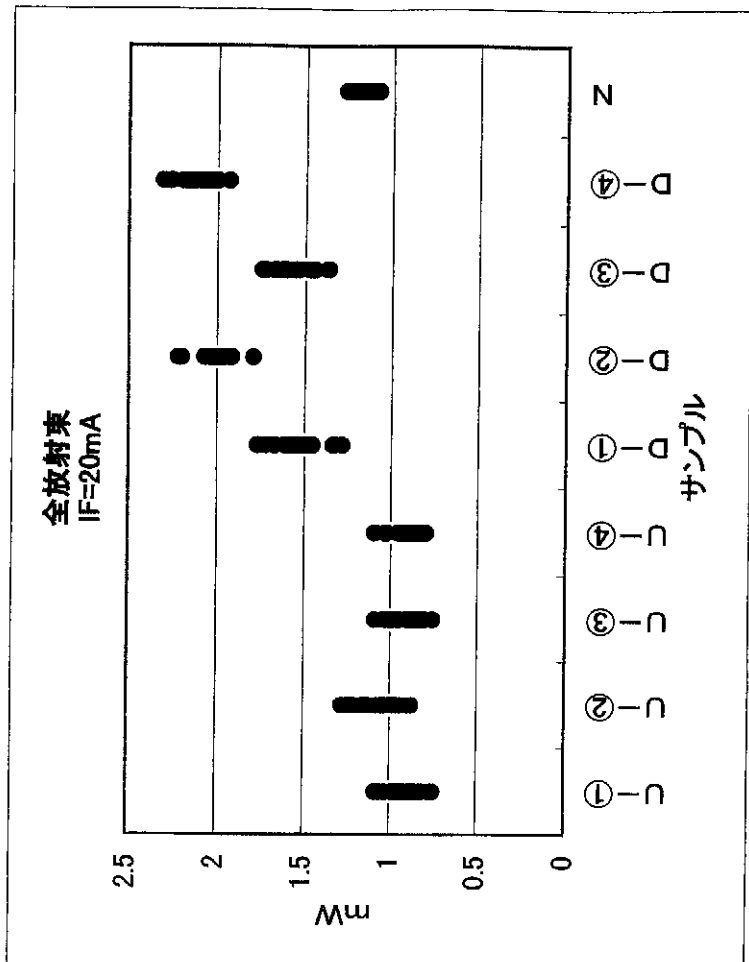
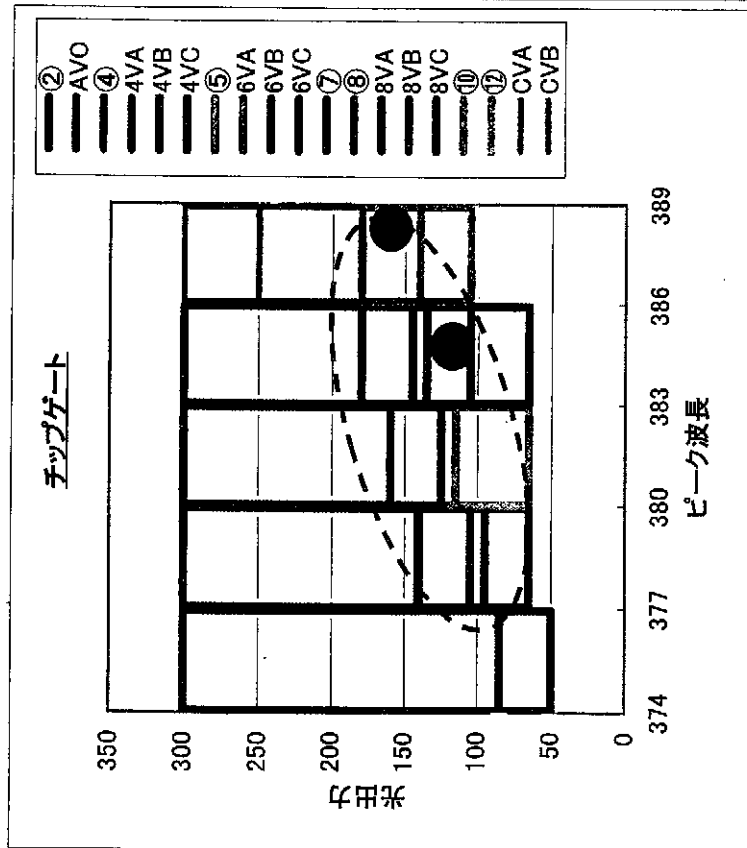
■ピーク波長－電流特性

Peak-Emission Wavelength vs. Forward Current



- ・ この資料は技術検討用参考資料ですので規格及び保証を意味するものではありません。
- ・ The data shown above are examples and are not guaranteed.

CANタイプ短波長LEDの光出力



<平均値>

	シリコン	チップ	FU	FD	倍率
①	有り	384	0.90	1.52	1.68
②	有り	387	1.08	2.03	1.87
③	無し	384	0.91	1.58	1.75
④	無し	387	0.91	2.11	2.31

シリコン封止によるパワーアップは見込めない
FU⇒FDにより1.6倍以上のパワーアップ