

PNA4603H

Bipolar Integrated Circuit with Photodetection Function

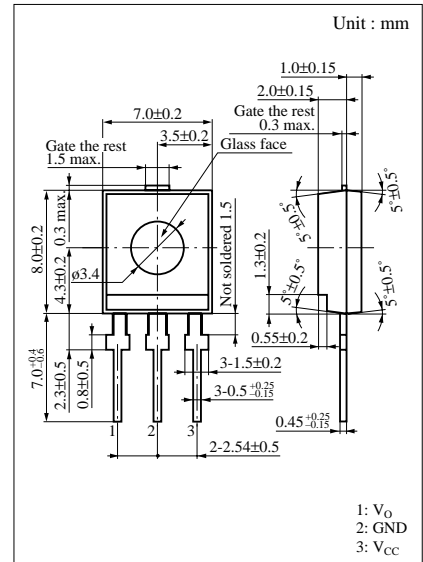
For brightness control systems

■ Features

- Wavelength characteristics close to human visual sensitivity
- External parts not required
- Good output voltage linearity with respect to incident illuminance

■ Absolute Maximum Ratings (Ta = 25°C)

Parameter	Symbol	Ratings	Unit
Power supply voltage	V _{CC}	7	V
Power dissipation	P _D	200	mW
Operating ambient temperature	T _{opr}	-20 to +75	°C
Storage temperature	T _{stg}	-40 to +100	°C



■ Main Characteristics (Ta = 25°C V_{CC} = 5V)

Parameter	Symbol	Conditions	min	typ	max	Unit
Operating supply voltage	V _{CC}		4.5	5.0	5.5	V
Current consumption	I _{CC}	V _{CC} = 5.25V	0.5	1.0	1.5	mA
Output voltage	V _{OFF}	L = 0 lx, V _{CC} = 5.0V	0.1	0.5	0.8	V
	V _{O1}	L = 10 lx, V _{CC} = 5.0V Note 1)	2.0	2.7	3.4	V
	V _{O2}	L = 800 lx, V _{CC} = 5.0V Note 1)	3.9	4.1	4.9	V
	η	V _{O1} - V _{OFF} , V _{CC} = 5.0V	1.65	1.9	4.9	V
Output impedance	Z			10		kΩ
Peak sensitivity wavelength	λ _P			540		nm

Note 1) Halogen lamp light source (A light source)

Output Voltage — Illuminance

