

PNA4603H

Bipolar Integrated Circuit with Photodetection Function

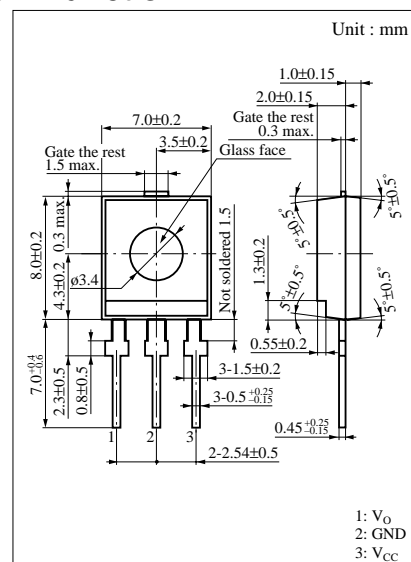
For brightness control systems

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

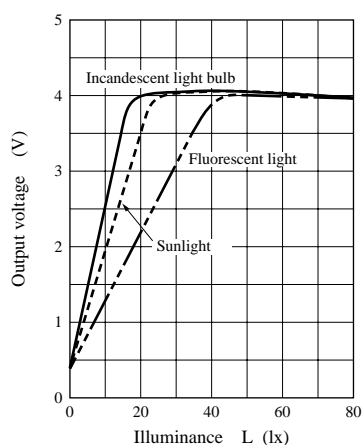


Main Characteristics (Ta = 25°C V_{CC} = 5V)

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}	$L = 0 \text{ lx}, V_{CC} = 5.0V$	0.1	0.5	0.8	V
	V_{O1}	$L = 10 \text{ lx}, V_{CC} = 5.0V$ Note 1)	2.0	2.7	3.4	V
	V_{O2}	$L = 800 \text{ lx}, V_{CC} = 5.0V$ 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		k Ω
Peak sensitivity wavelength	λ_P			540		nm

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

Output Voltage — Illuminance



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