

# PNZ7103

## Bipolar Integrated Circuit with Photodetection Function

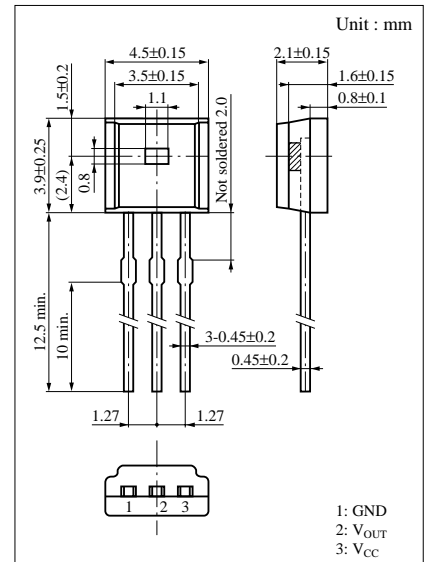
For photoelectric sensor systems

### ■ Features

- Built-in amplifier circuit
- Small plastic package (flat type)

### ■ Absolute Maximum Ratings (Ta = 25°C)

Parameter	Symbol	Rated	Unit
Power supply voltage	V <sub>CC</sub>	+15	V
Operating supply voltage sensitivity	V <sub>C</sub>	+3.0 to +3.5	
Power dissipation	P <sub>D</sub>	100	mW
Operating ambient temperature	T <sub>opr</sub>	-25 to +85	°C
Storage temperature	T <sub>stg</sub>	-40 to +100	°C



### ■ Electro-Optical Characteristics (V<sub>CC</sub> = 3.2V, R<sub>L</sub> = 5.1kΩ, Ta = 25°C ± 3°C)

Parameter	Symbol	Conditions	min	typ	max	Unit
Current consumption without incident light	I <sub>CC</sub>			1.4	2.2	mA
Photoelectric sensitivity (AC)	A	λ = 780nm	144	180	216	V/mW
		λ = 950nm		200		
Output noise voltage without signal	V <sub>ON</sub>			0.9		mVrms