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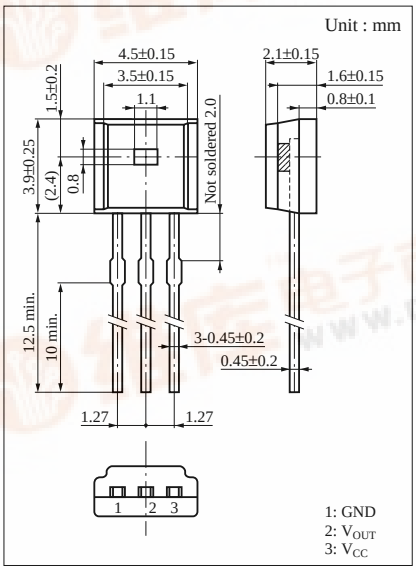
PNZ7103

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	Ratings	Unit
Power supply voltage	V_{CC}	+15	V
Operating supply voltage sensitivity	V_C	+3.0 to +3.5	
Power dissipation	P_D	100	mW
Operating ambient temperature	T_{opr}	–25 to +85	˚C
Storage temperature	T_{stg}	– 40 to +100	˚C

Electro-Optical Characteristics (V_{CC} = 3.2V, R_L = 5.1kΩ, Ta = 25˚C ± 3˚C)

Parameter	Symbol	Conditions	min	typ	max	Unit
Current consumption without incident light	I_{CC}			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_{ON}			0.9		mVrms

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