

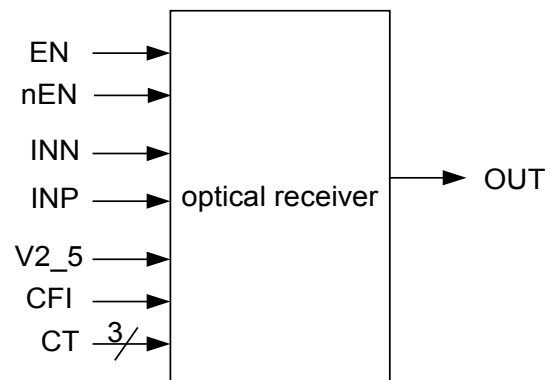
### DATA SHEET

#### Typical Applications

→ bar code reader

#### Features

- Technology CMOS
- Area : 2.22 mm<sup>2</sup> (1300μm x 1700μm)
- Consumption : 7.5 mA maximum
- Operating supply voltage : 3 V – 5.5 V
- Power down mode
- low noise, low input differential impedance, low output impedance



Pin Name	Description
INN	Photodiode negative input
INP	Photodiode positive input
V2_5	common mode voltage
CFI	Bandwidth and Gain adjustment
OUT	output
CT<2:0>	Gain attenuation signals
EN	Power down mode input
nEN	inverted power down mode signal
VDD	High power supply
VSS	Low power supply

#### Product Description

The optical receiver is a photodiode amplifier with 40Mohms gain.

A power down mode is available

## Absolute Maximum Ratings

Symbol	Parameter	Min	Typ	Max	Unit
VDD	Power supply voltage	3		5.5	V
Tjc	Junction temperature	0		60	°C
Tst	Storage temperature	-65		150	°C

## DC Characteristics

Symbol	Parameter	Min	Typ	Max	Unit
VDD	High power supply	3		5.5	V
VSS	Low power supply		0		V
IDD	Supply Current	4.6		7.5	mA
IDD_PD	Supply Current in power down mode			0.2	μA

## AC Characteristics

Symbol	Parameter	Min	Typ	Max	Unit
CMRR	Common mode rejection rate	3		5.5	V
Apa	Amplification factor		0		V
F <sub>high</sub>	Bandwidth high frequency	1.4		3.4	MHz
F <sub>low</sub>	Bandwidth low frequency	670		950	Hz
	Input current noise		4.4		nA RMS
I noise	Input equivalent noise			2	pA/Hz <sup>1/2</sup>
R <sub>in</sub>	Input differential resistance	100		320	Ohms
Ipa	Input current			10	μA

## External components

