ON2529

・本資料に記載の品番は、従来品番です。
・The part number mentioned in this datasheet is conventional part number.

■ 概　要

ON2528は、ハイブリッド技術により、反射形ホトセンサにアンプを内蔵した小型、軽量、高精度、高信頼性のホトセンサユニットです。

物体検知用、無接点スイッチとして特に紙検知用のホトセンサとして最適です。

■ 特　長

● アンプ内蔵形で小形、高信頼性。
● オープンコレクタ出力。
● 小型コネクタを使用。

■ 用　途

● 複写機の紙検知
● プリンタの紙検知

■ Outline

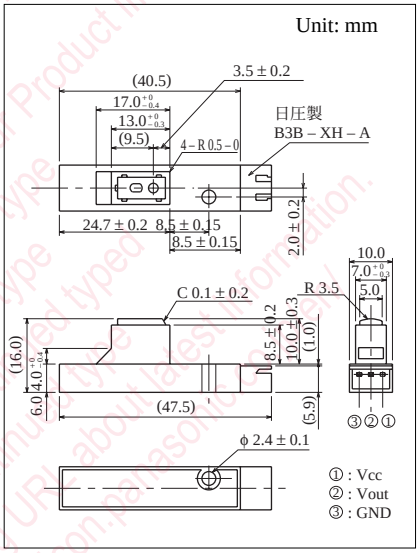
The ON2529 is a small, light weight, highly precise and reliable photo sensor unit incorporating amplifier in the re-flective photo sensor by hybrid technique. Widely applied for object detection, contactless switch and especially for paper detection.

■ Features

● Small size and reliability
● Open-collector output
● Long detectable distance : d = 0 ～ 8.5 mm
● Power supply, output connection with small connector

■ Use

● Paper detection of copying machine
● Paper detection of printer



■絶対最大定格　Absolute Maximum Ratings (T_a = 25°C)

Item		symbol	Value	Unit
電源電圧	Supply Voltage	V_{CC}	9	V
コレクタ損失	Collector Power Dissipation	P_C	360	mW
出力電圧	Output Voltage	$V_{O\ (Max)}$	24	V
動作周囲温度	Operating Ambient Temperature	T_{opr}	−10 ~ + 60	°C
保存温度	Storage Temperature	T_{stg}	−20 ~ +75	°C

■電気的特性　Electrical Characteristics (T_a = 25°C)

Item		symbol	Condition	Min	typ	Max	Unit
電源電圧	Supply Voltage	V_{CC}		4.75	5.00	5.25	V
電源電流	Supply Current	I_{CC} *1	物体検知時，R_L = ∝ Object at Detection, R_L = ∝			40	mA
出力吸込電流	Output Sink Current	I_{SINK} *2	物体検知時，V_O = 1.5 V Object at Non Detection, V_O = 1.5 V	6			mA
“ L ”出力電圧	“L ”Output Voltage	V_{OL} *3	物体検知時，V_{CC} = 5 V，I_{SINK} = 3 mA Object at Non Detection, V_{CC} = 5 V，I_{SINK} = 3 mA		0.2	0.4	V
“ H ”出力電圧	“H ”Output Voltage	V_{OH} *4	物体検知時，R_L = 10 kΩ V_{CC} = 5 V, V_O = 5 V Object at Detection, R_L = 10 kΩ V_{CC} = 5 V, V_O = 5 V	4.7	4.9		V
検知機能	Response Characteristics	d*5	V_{CC} = 5 V		0 ~ 2		mm

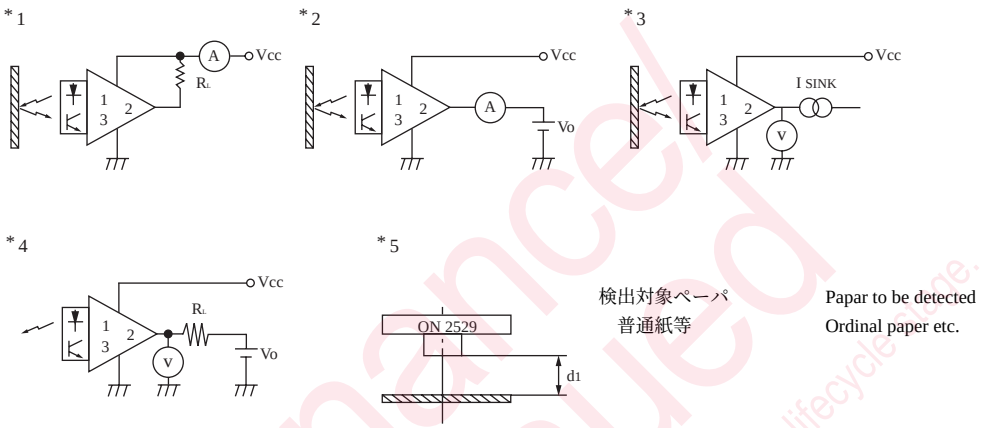
■ご使用上の注意　Handing caution

1）洗浄の際, 薬品の使用は避けて下さい。／Chemicals should be avoided when washing.

2）取付の時のビス締め強度は6kg/cm以下にして下さい。／Screw crasping intensity of fixing is less than 6 kg/cm.

試験回路

Test circuit



⚠Caution for Safety

⚠DANGER

■ This product contains Gallium Arsenide (GaAs).

GaAs powder and vapor are hazardous to human health if inhaled or ingested. Do not burn, destroy, cut, cleave off, or chemically dissolve the product. Follow related laws and ordinances for disposal. The product should be excluded from general industrial waste or household garbage.

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