CLOUDUPPER

东莞市亿彩电子科技有限公司

产品规格书

SPECIFICATION

客户名称customer name：	
客户编码CustomerNo.	
产品类型ProductName ：	施密特器件
产品型号 PartNo.：	PIC0103(YC)
版本 Version：	V1.2
发布日期 Date:	2018-3-25

客户承认 APPROVED BY CUSTOMER			亿彩承认 APPROVED BY CLOUDUPPER		
确认意见 COMMENTS	审核 CHECKED BY	批准 APPROVED BY	编写 PREPARED BY	审核 CHECKED BY	批准 APPROVED BY
			丁煜城	钟永成	田勇
判定: Judge outcome:			判定: Judge outcome:		OK

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本规格书仅用于双方交流用需经双方签订后方可生效，自签订后有效期为两年，期满后需以书面形式续签。最终解释权为亿彩所有。

This product specification is only used for technical communication.Only after the signature or seal, the specifications have the force of law.since the signing of the validity period of two years, after the expiration of the written renewal. The final interpretation right is owned by the CLOUDUPPER

产品介绍 Product introduction:

PIC0103是一款由光电二极管、放大器、施密特触发器电路和输出三极管组成的光电集成电路。

The PIC0103 is a photo IC comprised of a photodiode, amplifer, schmitt trigger circuit and output transistor.

特点 Features:



·Dark On 光照时高电平输出
Dark On "H" Level output at light input

·内置宽波长 硅光敏二极管
Built-in silicon photo diode with wide wavelength

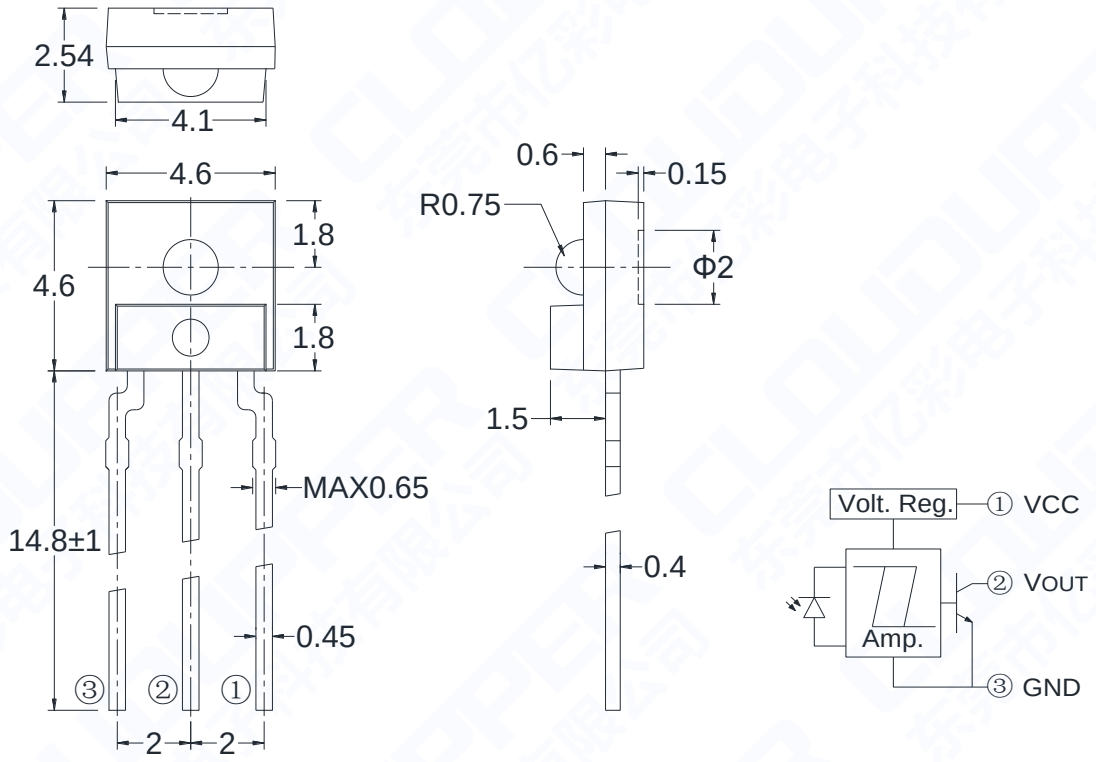
用途 Application:

·光电开关
Optical switch

·自由空间光通信
Free space optical communications

·旋转编码器等
Rotary encoders,etc.

尺寸图 / DEVICE DIMENSIONS (mm)



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MAXIMUM RATINGS / 极限值 (Ta= 25°C)

项目 Item	符号 Symbol	额定值 Rating	单位 Unit
电压 Supply voltage	Vcc	17	V
低电平输出电流 Low level output current	I_{OL}	30	mA
功耗 Power dissipation	P_D	200	mW
工作温度 Operating temp.	Topr.	-25~85	°C
存储温度 Storage temp.	Tstg.	-40~100	°C
焊接温度 Soldering temp	Tsol.	260(within 5 seconds)	°C

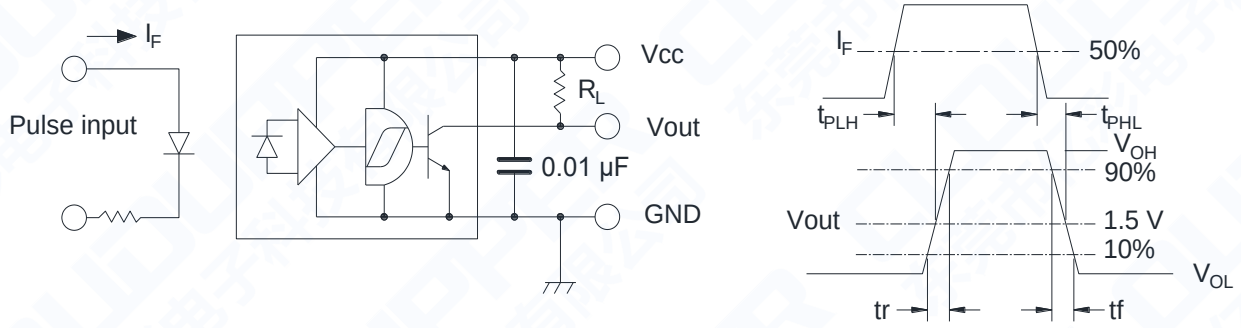
Electro-optical characteristics / 光电特性 (Ta= 25°C)

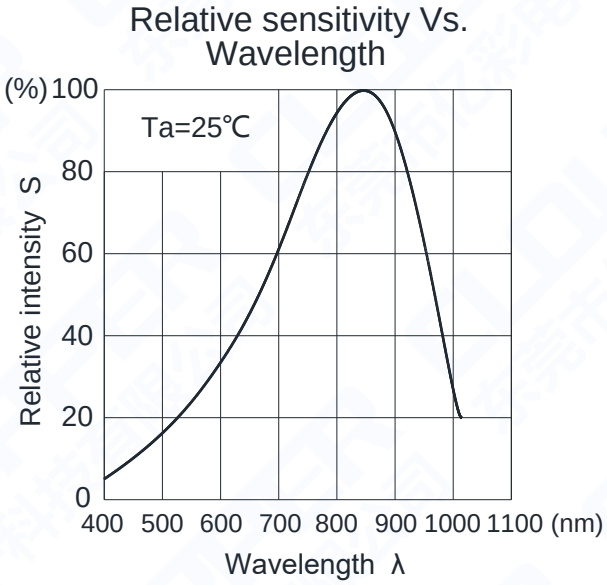
项目 Items	符号 Symbol	条件 Condition	最小 Min.	典型 Typ.	最大 Max.	单位 Unit
电压 Supply voltage	Vcc	-	4.5	-	17	V
高电平电源电流 High level supply current	I_{CCH}	Ev=200Lux*1	-	3	6	mA
低电平电源电流 Low level supply current	I_{CCL}	Ev=0Lux	-	3	6	mA
高电平输出电压 High level output voltage	V_{OH}	Ev=200Lux R_L=10kΩ*2	4.5	-	-	V
低电平输出电压 Low level output voltage	V_{OL}	Ev=0Lux I_{OL}=16mA	-	-	0.4	V
H→L阈值照度 H→L Threshold illuminance	E_{VHL}	-*1	-	10	-	Lux
L→H阈值照度 L→H Threshold illuminance	E_{VLH}	-*1	-	15	-	Lux
滞后 Hysteresis	Hyst	E_{VHL}/E_{VLH}	-	0.7	-	-
峰值感应波长 Wavelength of Peak Sensitivity	λ_P	-	-	850	-	nm
L→H 传播时延 L→H propagation delay time	tPLH	Ev=200Lux*1 R_L=280Ω	-	2	6	μs
H→L 传播时延 H→L propagation delay time	tPHL		-	3	9	μs
上升时间 Rise time	tr		-	0.1	-	μs
下降时间 Fall time	tf		-	0.05	-	μs

Note: *1.color temp. : 2856K standard Tungsten lamp.
*1.色温：2856K标准钨丝灯。
*2.RL : Resistance between 5V/Vcc and load resistance.
*2.RL : 5V/Vcc与负载电阻之间的电阻。

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Response time measurement circuit / 响应时间测试电路





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