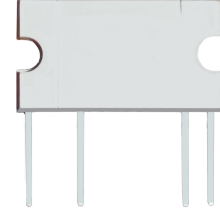


YDS2/4006——4A 60V Opto-MOS

概述 Features

- 厚度3.0mm SSR Thickness 3.0mm SSR
- 负载电流最大为4A Load current up to 4A
- 击穿电压60V Breakdown voltage 60V
- 介质耐压3000V Dielectric strength 3000V
- 符合RoHS RoHS compliant

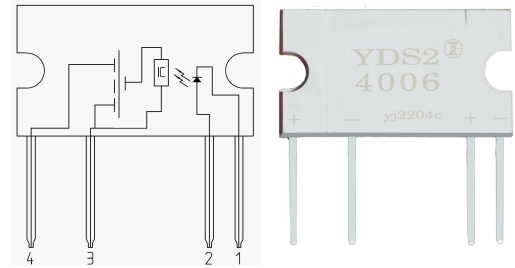


获得认证 Agency approvals

- UL - E481250
- cUL - E481250

应用 Applications

- 交通信号控制 Traffic signals control
- 测试设备 Measuring instruments
- 工业控制 Industrial control



打印标志 Marking information

Part number	Package	Marking
YDS2/4006	SIP4	YDS2 4006

极限值 Absolute maximum ratings

(Ta=25°C)

特性参数/Parameter		符号/Symbol	测试条件/Test condition	最小值/Min.	典型值/Typ.	最大值/Max.	单位/Unit
输入端/Input	LED 反向电压/LED reverse voltage	V_R		6			V
	LED 正向电流/LED forward current	I_F				50	mA
	功耗/Power dissipation	P_{in}			75		mW
输出端/Output	击穿电压/Breakdown voltage	BV_{DSS}		60			V
	功耗/Power dissipation	P_{out}			2	2.5	W
	额定电流/On-state current	I_L	$I_{in}=10mA$			4	A
	峰值电流/Peak current	I_{peak}	100 ms (1shot), VL = DC		7		A
介质耐压/Dielectric strength *		V_{ISO}	$I_{ISO} \leq 0.3mA$	3000			V_{rms}
工作温度/Operating temperature		T_{opr}		-30		85	°C
储存温度/Storage temperature		T_{stg}		-40		125	°C

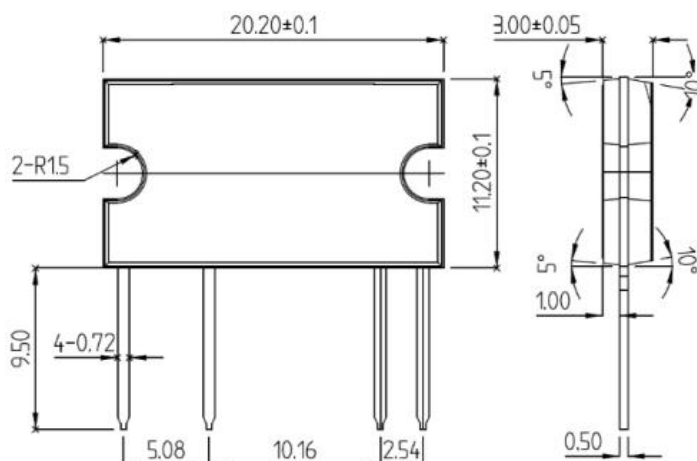
* : RH=40 to 60%, T=20~30°C, AC for 1minute.

电参数 Electrical parameters

特性参数/Parameter		符号 /Symbol	测试条件 /Test condition	最小值 /Min.	典型值 /Typ.	最大值 /Max.	单位 /Unit
输入端/Input	LED 正向电压/LED forward voltage	V_F	$I_F=10mA$		1.2	1.3	V
	LED 反向电流/LED reverse current	I_R	$V_R=5V$			10	μA
输出端/Output	断态泄漏电流/Output off-state leakage current	I_{Leak}	$V_o=60V$			10	μA
耦合特性 /Transfer characteristics	LED 触发电流/LED trigger current	I_{FT}			3	8	mA
	推荐的工作电流 /Recommend operating current	I_{in}		10		18	mA
	导通电阻/Output on-state resistance	R_{on}	$I_{in}=10mA,$ $I_b=1.6A$		45	100	m Ω
	导通时间/Turn on time	T_{on}	$I_{in}=10mA,$ $I_b=1.6A$			5	ms
	关断时间/Turn off time	T_{off}	$I_{in}=10mA,$ $I_b=1.6A$			2	ms
	电容/I/O capacitance	C					10

外形尺寸 Outline dimension :mm

SIP4



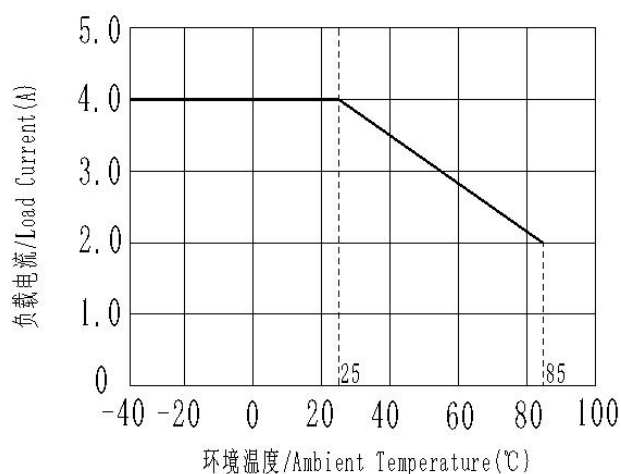
订货信息 Ordering information

订货信息/Ordering information					
	Y	DS	2/	400	6
公司商标代号 Company symbol					
MOS DC 输出 SSR:MOS DC Output SSR					
封装 Package: 2: SIP4					
负载电流 Load current: 400—4A					
击穿电压 BV_{DSS} : 6—60V					

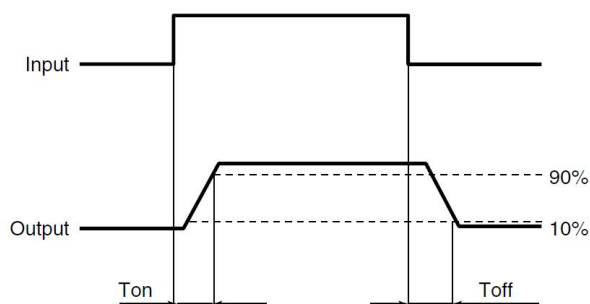
特性曲线 Characteristic data

1. 负载电流与环境温度关系曲线

Load current VS. ambient temperature

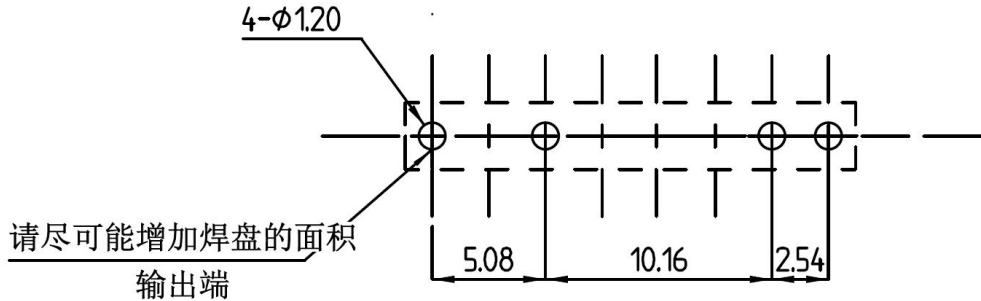


接通和关断时间关系 Turn on and turn off time



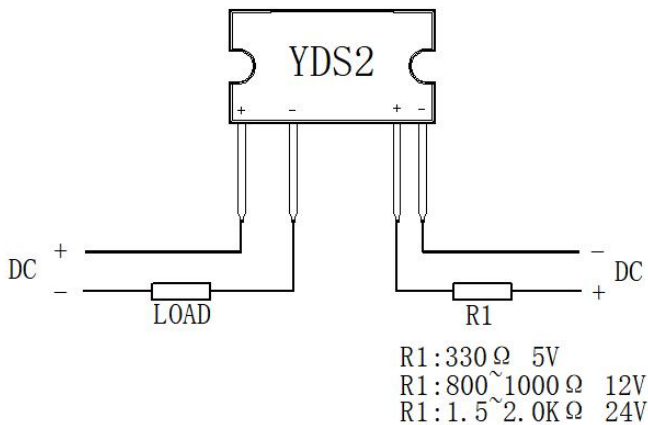
安装孔尺寸图 Fixing layout

Unit:mm



Please enlarge the solder pads of output.

接线图 Wiring diagram



注意事项 Notes

- 工作环境温度超过 25 $^{\circ}$ C 时请降额使用。参见特性曲线。
When ambient temperature is above 25 $^{\circ}$ C, the load current must be reduced. (see characteristic data)
- 继电器接线时, 务必保证输入端极性的正确, 以免损坏继电器。
Ensuring the polarity is correct when connecting the input lines, otherwise the wrong connection will damage the relay.

关于防静电对策 Cautions for static electricity

- 操作 MOS 输出继电器的作业人员, 请穿戴防静电工作服, 通过 500k Ω ~ 1M Ω 左右的保护电阻, 实施人体接地。Employees handling relays should wear anti-static clothes and should be grounded through protective resistance of 500k Ω to 1M Ω .

-
- b. 请在作业台上装有带导电性的金属板或具有防静电的专用板，并对测量仪器和治具等实施接地。 A conductive metal sheet should be placed over the work table. Measuring instruments and jigs should be grounded.
- c. 使用电烙铁时，对电烙铁前端进行接地。（建议使用低电压用的电烙铁。） When using soldering irons, either use irons with low leakage current, or ground the tip of the soldering iron. (Use of low-voltage soldering irons is also recommended.)
- d. 组装时使用的设备等也应正确地接地。 Devices and equipment used in assembly should also be grounded.
- e. 对印刷电路板和机器进行包装时，请避免使用发泡苯乙烯、聚乙烯等带电性的高分子材料。 When packing printed circuit boards and equipment, avoid using high-polymer materials such as foam styrene, plastic, and other materials which carry an electrostatic charge.
- f. 对MOS输出继电器进行储存和搬运时，请在不易产生静电的环境(例如湿度45~60%)中通过导电性包装材料进行保护。 When storing or transporting relays, the environment should not be conducive to generating static electricity (for instance, the humidity should be between 45 and 60%), and relays should be protected using conductive packing materials.

单击下面可查看定价，库存，交付和生命周期等信息

[>>Silicon Billion\(硅兆\)](#)