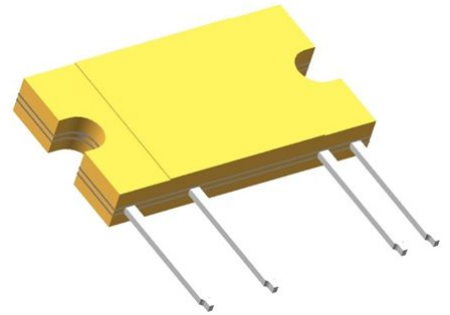


YDS2/400(800)6——4A(8A)60V Opto-MOS

概述 Features

- 光电隔离 Optoelectronic isolation
- 负载电流最大为4A、8A Max load current 4A、8A
- 高负载耐压60V High load voltage 60V
- 介质耐压2500V Dielectric Strength 2500V
- 符合RoHS RoHS compliant

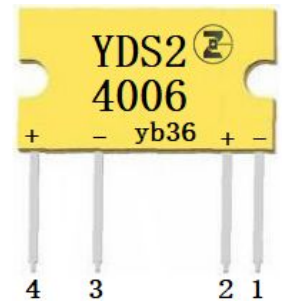
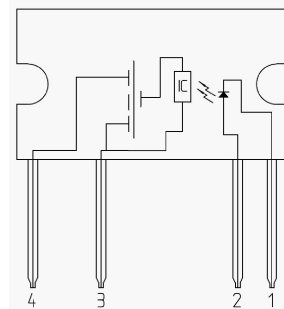


应用 Applications

- 交通信号控制 Traffic signals
- 测试设备 Measuring instruments
- 工业设备 Industrial machines

打印标志 Marking Information

Part Number	Package	Marking
YDS2/4006	SIP4	YDS2 4006
YDS2/8006	SIP4	YDS2 8006



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	反向电流/LED reverse current	I_R	$V_R=5V$			10	μA	
	正向电压/LED forward current	V_F	$I_F=10mA$		1.2	1.3	V	
	功耗/Power dissipation	P_{in}			75		mW	
输出端/Output	断态泄漏电流/Output off-state leakage current	I_R	$V_D=60V$			10	μA	
	功耗/Power dissipation	P_{out}			2	2.5	W	
	额定电流/On-state RMS current	I				4006	4	A
						8006	7	
峰值电流/Peak current	I		A connection: 100 ms (1shot), VL = DC		4006	7	A	
					8006	12		

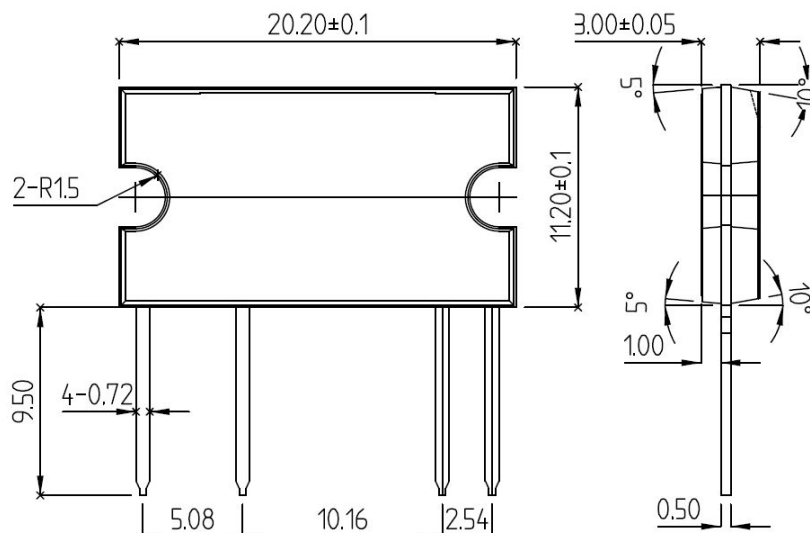
电参数 Electrical Parameters

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	
LED 触发电流/LED trigger current *	I_{FT}		5	8	10	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}	$I_F=10mA,$ $I_D=1600mA$		4006	45	100	mΩ
				8006	30	80	
耦合特性/Transfer characteristics	导通时间/Turn on time	t_{on}	$I_F=10mA,$ $I_D=1600mA$			2	ms
	关断时间/Turn off time	t_{off}	$I_F=10mA,$ $I_D=1600mA$			1	
	介质耐压/ Dielectric strength *	V_{ISO}	$I_{off} \leq 0.3mA$	2500			V_{rms}
	电容/ I/O capacitance	C			3		pF
	储存温度/Store temperature	T		-40		100	°C
	工作温度/Operating temperature			-40		85	

备注：1、介质耐压在测试前请务必确认输入端和输出端已经分别短路。
2、带“*”参数为关键参数。

外形尺寸 Outline dimension :mm

SIP



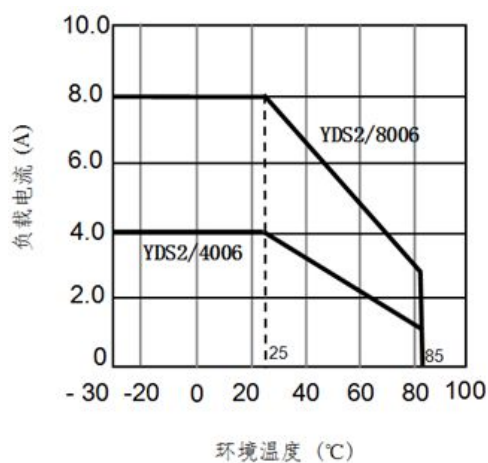
订货信息 Ordering Information

订货信息/Ordering Information					
	Y	DS	2/	400	6
公司商标代号 Company symbol					
MOS 输出型 SSR					
封装 Package: 2: SIP4					
负载电流 Load current: 400—4000mA;800—8000mA					
击穿电压 BVDS: 6—60V					

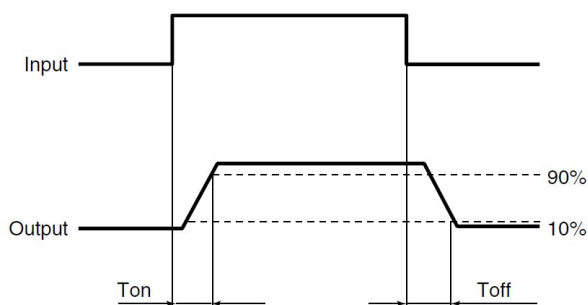
特性曲线 Characteristic Data

1. 负载电流与环境温度关系曲线

Load current VS. Ambient temperature

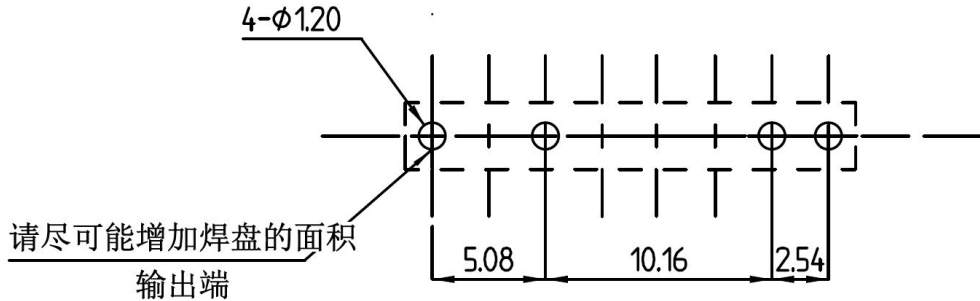


接通和关断时间关系 Turn on and Turn off time



安装孔尺寸图 Fixing layout

Unit:mm



注意事项 Notes

- 工作环境温度超过 25°C 时请降额使用，降额曲线参考附件。
When ambient temperature is above 25°C, the load current must be reduced. (see Characteristic Data 1)
- 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，请穿戴制电性作业服，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 clothing and should be grounded through protective resistance of 500k Ω to 1M Ω .
- 请在作业台上粘贴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.
- 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.)
- 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.
- 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.
- 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.