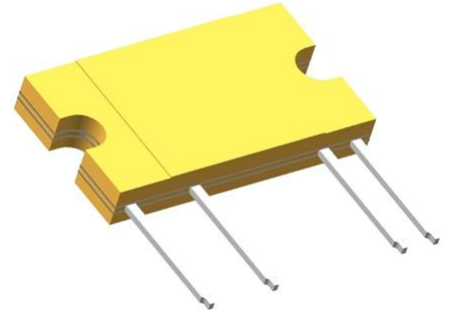


YDS2/400(800)6——4A(8A)60V Opto-MOS

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

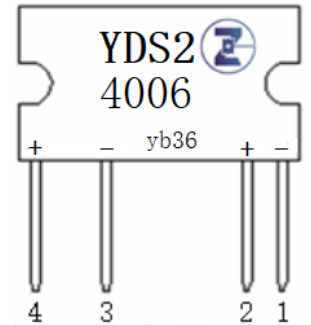
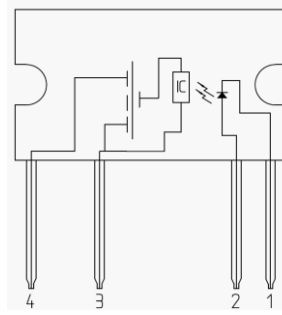


应用/Applications

- 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		

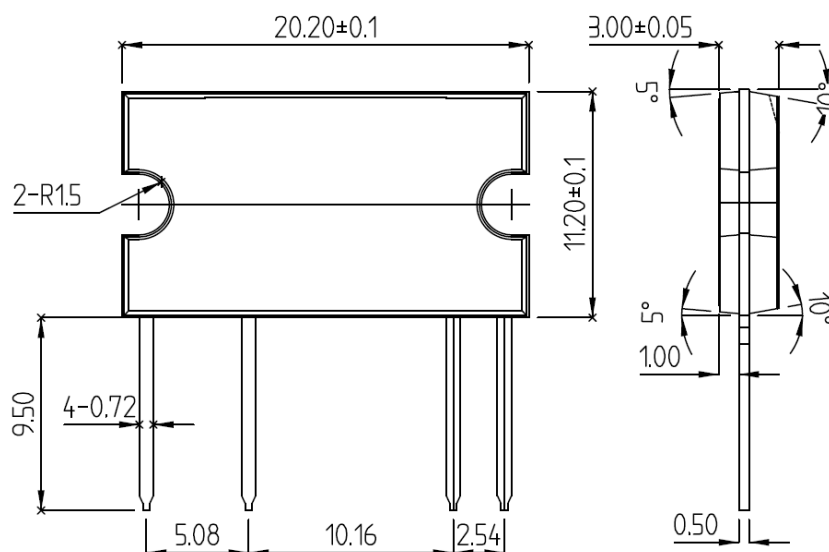
电参数/ Electrical Parameters

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/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	$m\Omega$
				8006	30	80	
耦合特性/Transfer characteristics	导通时间/Turn on time	$I_F=10mA,$ $I_D=1600mA$			2	ms	
	关断时间/Turn off time	$I_F=10mA,$ $I_D=1600mA$			1		
介质电压/ 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	$^{\circ}C$	
工作温度/Operating temperature			-40		85		

备注：1、介质电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

SIP4

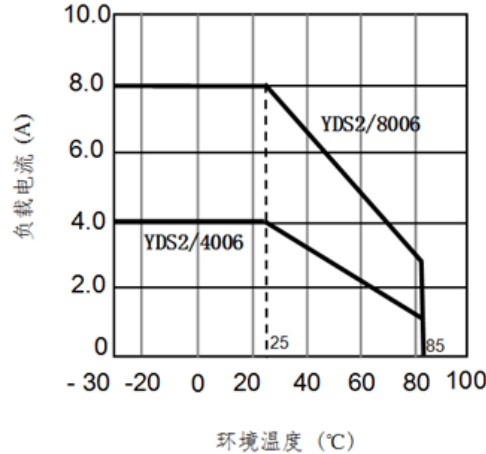


订货信息/Ordering Information :

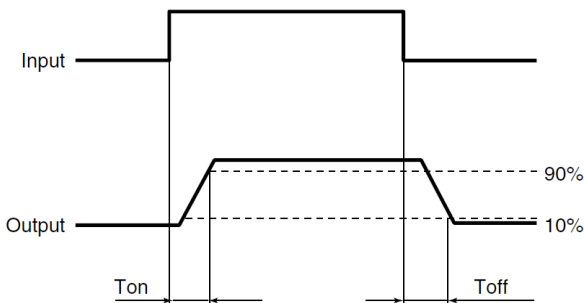
订货信息/Ordering Information							
	Y	DS	2/	400	6	D	4
公司商标代号 Company symbol							
MOS 输出型 SSR							
封装 Package: 1: DIP7; 2: SIP4							
负载电流 Load current: 400—4000mA;800—8000mA							
击穿电压 BVDS: 6—60V							
D: DIP SIP							
4: 4PIN							

特性曲线/Characteristic Data

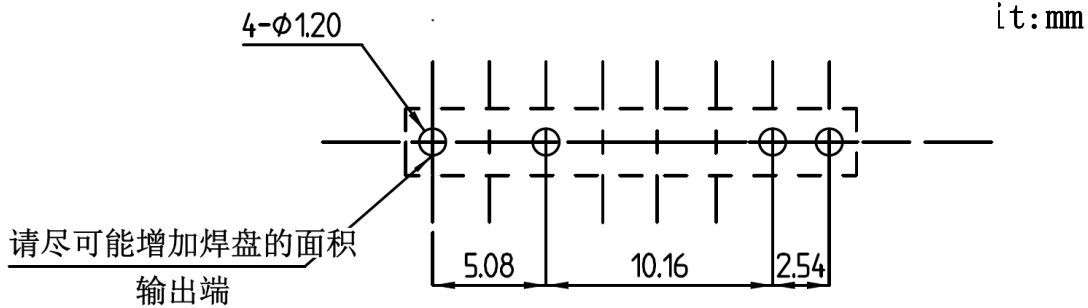
1. 负载电流与环境温度关系曲线 Load current VS. Ambient temperature



接通和关断时间关系 Turn on/Turn off time



安装孔



注意事项 /Notes

- a) 工作环境温度超过 25℃时请降额使用，降额曲线参考附件。
When ambient temperature is above 25℃, the load current must be reduced. (see Characteristic Data 1)
- b) 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

- a. 操作 MOS 输出继电器的作业人员，请穿戴制电性作业服，通过 500kΩ~1MΩ 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 500kΩ to 1MΩ.
- b. 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.
- 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.