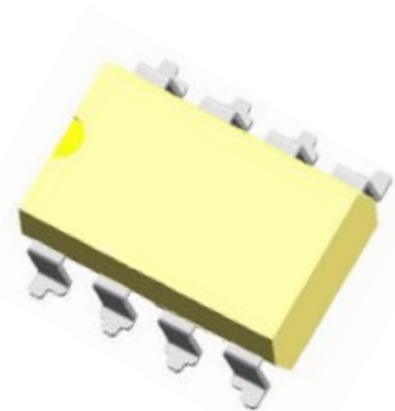


YDS1/60(90)60——600mA(900mA)600V Opto-MOS

概述 Features

- 光电隔离 Optoelectronic isolation
- 负载电流最大为600mA、900mA Max load current 600mA、900mA
- 高负载耐压600V High load voltage 600V
- 介质耐压1500V Dielectric Strength 1500V
- 符合RoHS RoHS compliant

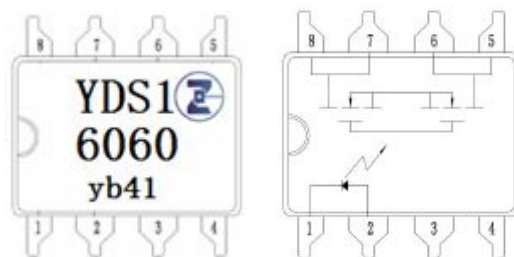


应用 Applications

- 高速检测设备/High-speed inspection machines
- 计算机/Computer

打印标志 Marking Information

Part Number	Package	Marking
YDS1/6060S	SMD8	YDS1 6060
YDS1/6060D	DIP8	YDS1 6060
YDS1/9060S	SMD8	YDS1 9060
YDS1/9060D	DIP8	YDS1 9060



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 voltage	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	$V_D=600V$			10	μA	
	功耗/Power dissipation	P_{out}			800		mW	
	额定电流/On-state RMS current	I	$I_F=10mA$			6060 9060	600 900	mA
	峰值电流/Peak current	I	A connection: 100 ms (1shot), VL = DC		6060 9060	1200 1800		mA

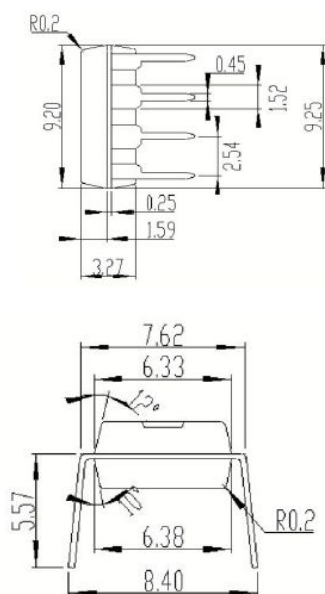
电参数 Electrical Parameters

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	
耦合特性 /Transfer characteristics	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}	$I_F=10mA,$ $I_B=600mA$		6060	3	5	Ω
					9060	1.8	2.5	
	导通时间/Turn on time	t_{on}	$I_F=10mA,$ $I_B=600mA$			2	ms	
	关断时间/Turn off time	t_{off}	$I_F=10mA,$ $I_B=600mA$			1		
	介质耐压/ Dielectric strength *	V_{ISO}	$I_{off} \leq 0.3mA$	1500			V_{rms}	
	电容/ I/O capacitance	C			1.5		pF	
	储存温度/Store temperature	T		-40		100	$^{\circ}C$	
工作温度/Operating temperature			-40		85			

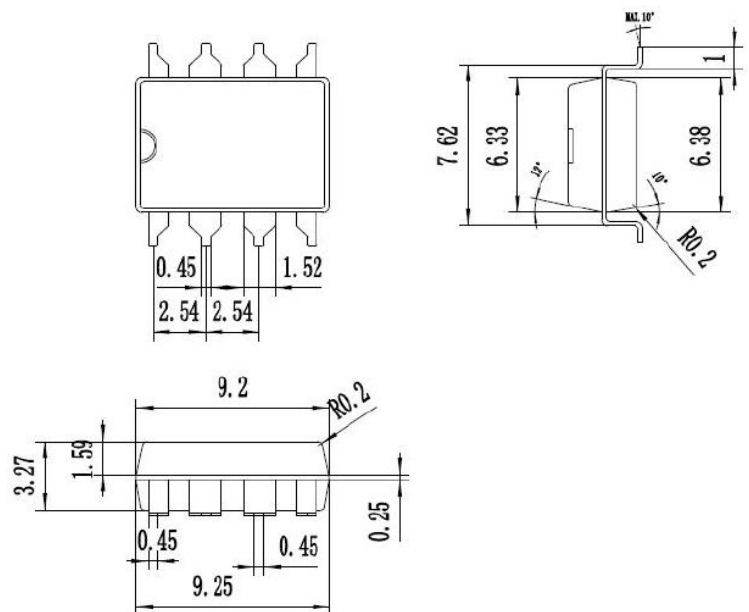
备注：1、介质耐压在测试前请务必确认输入端和输出端已经分别短路。
2、带“*”参数为关键参数。

外形尺寸 Outline dimension :mm

1、DIP8



2、SMD8



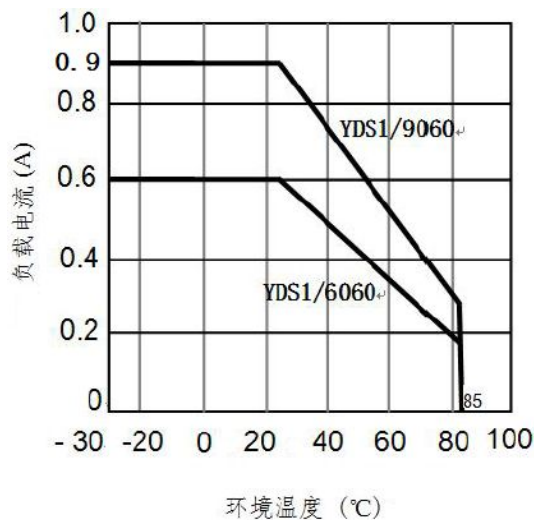
订货信息 Ordering Information

订货信息/Ordering Information					
	Y	DS	1/	60	60
公司商标代号 Company symbol					
MOS 输出型 SSR					
封装 Package: 1: DIP8/SMD8					
负载电流 Load current: 60—600mA;90—900mA					
击穿电压 BVDS: 60—600V					

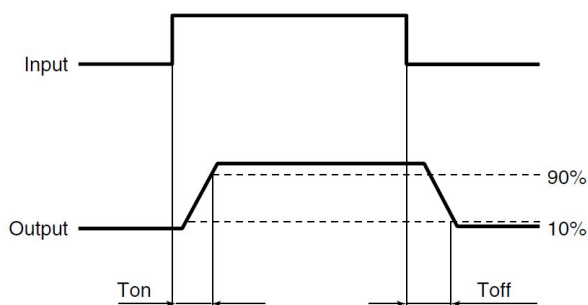
特性曲线 Characteristic Data

1. 负载电流与环境温度关系曲线

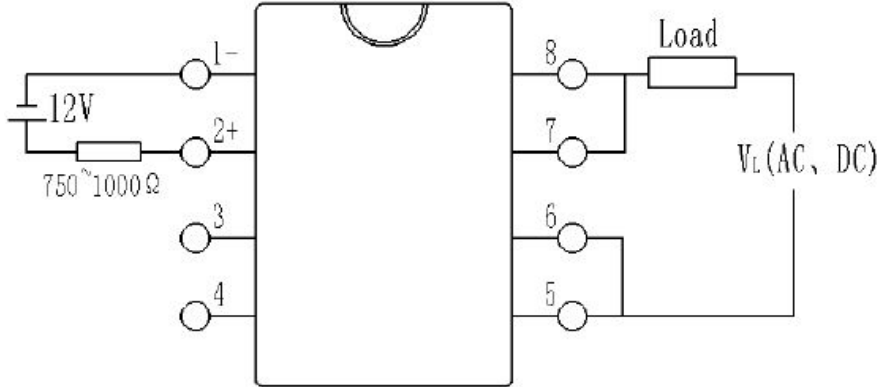
Load current VS. Ambient temperature



接通和关断时间关系 Turn on and Turn off time



接线图 Wiring diagram



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 500kΩ ~ 1MΩ 左右的保护电阻，实施人体接地。
a. Employees handling relays should wear anti-static clothing and should be grounded through protective resistance of 500kΩ to 1MΩ.
- 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。
b. 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。)
c. 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。
d. 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。
e. 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。
f. 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.