

MINI TYPE ESR4 SERIES

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

 E155181(R)

FEATURES

- Optically Isolated
- Ultra slim and light weight, SIL terminals type for high density mounting
 - Size: 5(W)x20(L)x17(H)mm
 - Weight: approximately 3.0g
- Low On-State Resistance
- Low Input Power Consumption
- TTL and CMOS Compatible
- MOSFET Output Thyristor (DC Output Only)

APPLICATIONS

- Temperature Control System
- Industrial Automatic Control
- Lighting System
- Office Appliances
- Factory Appliances



PART NUMBERING SYSTEM

• AC OUTPUT (Red)

ESR4	D05	A10	0	01	Z
					+--- Z:RoHS Compliance
					+--- Special number:
					00:Zero-on
					01:Random-on
					+--- 0:Normal
					+--- Output Load Current:
					A10:AC 1.0A
					+--- Input Control Voltage:
					D05:DC5V
					D12:DC12V
					D24:DC24V
					+--- Series Name: ESR4:Mini SSR

• DC OUTPUT (Gray)

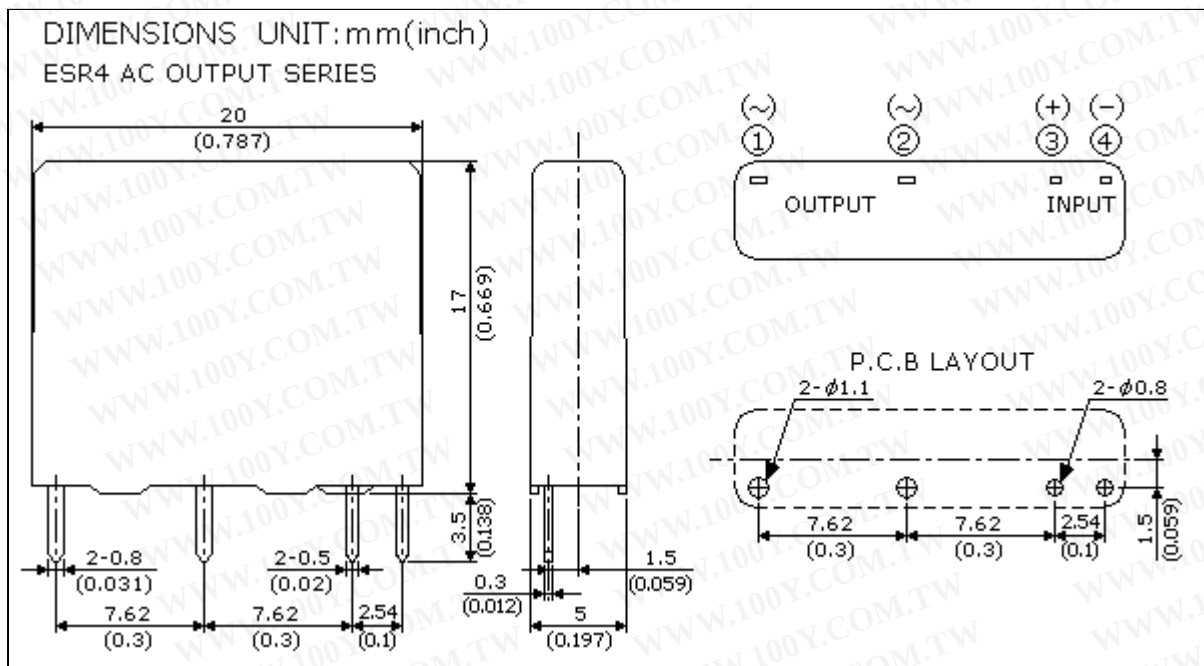
ESR4	D05	D40	0	00	Z
					+--- Z:RoHS Compliance
					+--- Special number:
					00:Normal
					+--- Function Code:

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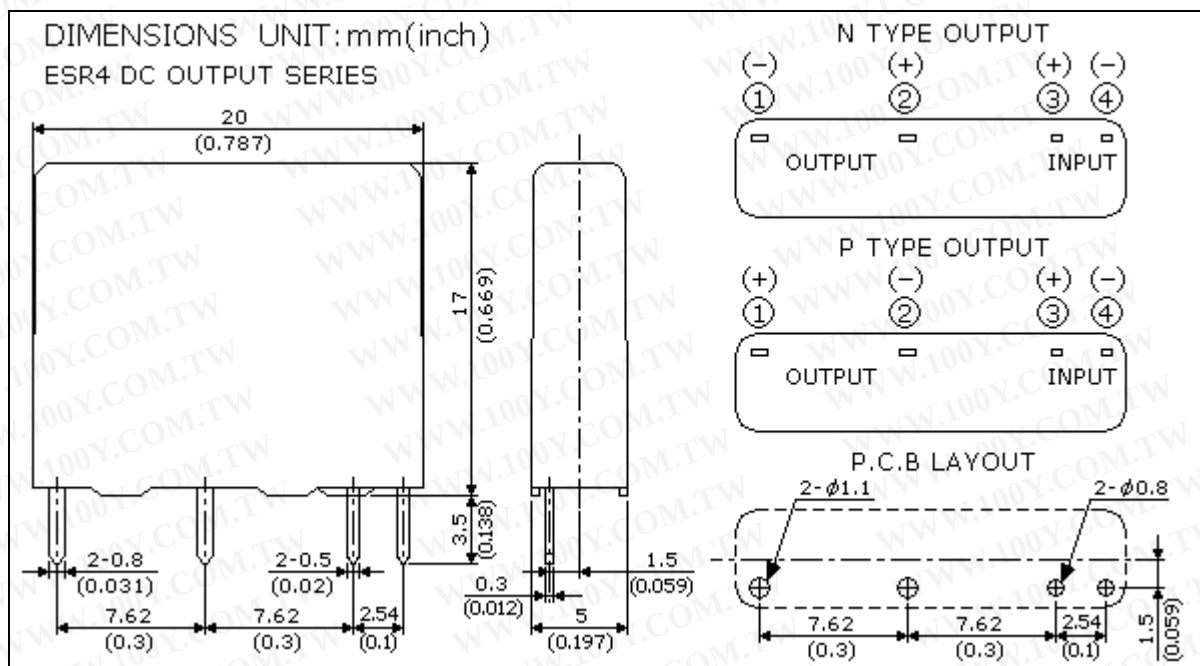
0:DC P-Output(+, -)
 1:DC N-Output(-, +)
 +--- Output Load Current:
 D40:DC 4.0A
 +--- Input Control Voltage:
 D05:DC5V
 D12:DC12V
 D24:DC24V
 +--- Series Name: ESR4:Mini SSR

DIMENSIONS

• AC OUTPUT



• DC OUTPUT



SPECIFICATIONS..... AC OUTPUT

DESCRIPTION	TYPES	ESR4		
		D05A10001	D12A10001	D24A10001
▶ INPUT CIRCUIT				
Nominal Voltage		5VDC	12VDC	24VDC
Control Voltage Range		3~10VDC	17~20VDC	18~32VDC
Control Current		12mA	10mA	7.7mA
Min. Turn-off Voltage		1VDC		
Input Impedance		320Ω	1070KΩ	3000KΩ
▶ OUTPUT CIRCUIT				
Max. Load Current		1.0A		
Min. Load Current		50mA		
Nominal load Voltage		240VAC		
Load Voltage Range		24~265VAC		
Non-Repetitive Max. Voltage		600V		
Non-Repetitive Max. Peak Current		50A		
Max. Off-state Leakage Current		2.0mA		
Max. On-state Voltage Drop		1.5V		
Zero-on or Random-on		R		
Max. Turn -on Time		1ms		
Maximum Soldering Heat		220℃ (10sec)		
Max. Turn-off Time		1/2 cycle + 1ms		
Insulation Resistance		1000MΩ, DC 500V (for input-output)		
Dielectric Strength (Between Input & Output)		2500Vrms, 60sec (for input-output)		

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Operating Temperature Range	-30℃ to +85℃
Storage Temperature Range	-40℃ to +100℃

SPECIFICATIONS..... DC OUTPUT

DESCRIPTION	TYPES	ESR4		
		D05D40*00	D12D40*00	D24D40*00
▶ INPUT CIRCUIT				
Nominal Voltage		5VDC	12VDC	24VDC
Control Voltage Range		3~10VDC	7~20VDC	18~32VDC
Control Current		12mA	10mA	7.7mA
Min. Turn-off Voltage		1VDC		
Input Impedance		320Ω	1070Ω	3000Ω
▶ OUTPUT CIRCUIT				
Max. Load Current		4A		
Min. Load Current		1mA		
Nominal Load Voltage		24VDC		
Load Voltage Range		0-30VDC		
Max. Peak Current		7A (10ms)		
Max. Off-state Leakage Current		<1mA		
Max. On-state Voltage Drop (2A)		0.24V		
Max. Turn -on Time		1ms		
Max. Turn-off Time		0.1ms		
Operating Switching Frequency		10Hz		
Maximum Soldering Heat		220℃ (10sec)		
Insulation Resistance		1000MΩ, DC 500V (for input-output)		
Dielectric Strength (Between Input & Output)		3750Vrms, 60sec (for input-output)		
Operating Temperature Range		-20℃ to + 80℃		
Storage Temperature Range		-25℃ to +80℃		

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