

TPM Part / No.	105W-1A□0D3-01	20W-1A□2N0			
SANYU Part / No.			J-14324YAD	S-212MGA-01	
外觀形狀 Appearance					
尺寸 Size (L×W×H) mm	19.6 x 7.0 x 7.1	20.3 x 5.0 x 6.1	25.4 x 7.4 x 7.9	20.3 x 7.6 x 6.0	
回路接續圖 Figure.(TOP VIEW)					
電氣規格	Contact Form	1 Form A	1 Form A	1 Form A	2 Form A
	Coil Rating Voltage	5 V / 150Ω 12 V / 500Ω	5 V / 70Ω 12 V / 330Ω 24 V / 1200Ω	24 V / 1440Ω	12 V / 300Ω
	Contact Rating	50 W	50 W	50 W	50 W
	Contact Current	1.0 Amp	1.0 Amp	1.0 Amp	1.0 Amp
	Carry Current	5.2 Amp	5.2 Amp	5.2 Amp	5.2 Amp
	Switching Voltage	1300 VDC	1000 VDC	500 VDC	1000 VDC
	Contact Voltage	2000 VDC	1000 VDC	2000 VDC	1000 VDC
	Contact Resistance	80 mΩ	80 mΩ	100 mΩ	80 mΩ
	Insulation Resistance	10 ¹³ Ω min.	10 ¹⁰ Ω min.	10 ¹⁰ Ω min.	10 ¹⁰ Ω min.
	Operate Time	3.0 mS	2.5 mS	2.0 mS	2.5 mS
	Release Time	3.0 mS	2.5 mS	2.0 mS	2.5 mS
	Operating temperature				
Reflow temperature					
電氣壽命 (代表例) Electrical Life	DC.1.0V,10mA 1000×10 ⁶ (R負荷)	DC.1.0V,10mA 1000×10 ⁶ (R負荷)	DC.1.0V,10mA 1000×10 ⁶ (R負荷)	DC.1.0V,10mA 1000×10 ⁶ (R負荷)	
High-frequency response					
外觀尺寸 DIMENSION					
	<p>TPM Part Ordering Code : □ = 1 (5VDC); 2 (12VDC); 3 (24VDC); 5 (3.3VDC)</p> <p>SANYU Part Ordering Code: ○○ = 03 (3.3VDC); 05 (5VDC); 12 (12VDC); 24 (24VDC)</p>				

TPM Part / No.	50W-1A□N	50W-2A□N	57W-1A□1N0-01	57W-2A□1N0	
SANYU Part / No.					
外觀形狀 Appearance					
尺寸 Size (L×W×H) mm	30.4 x 9.5 x 10.0	30.4 x 13.0 x 10.0	22.5 x 10.7 x 8.1	22.5 x 10.7 x 8.1	
回路接續圖 Figure.(TOP VIEW)					
電氣規格	Contact Form	1 Form A	2 Form A	1 Form A	2 Form A
	Coil Rating Voltage	5 V / 100Ω 12 V / 400Ω 24 V / 1600Ω	5 V / 80Ω 12 V / 300Ω 24 V / 1200Ω	5 V / 60Ω 12 V / 300Ω 24 V / 1200Ω	5 V / 60Ω 12 V / 300Ω 24 V / 1200Ω
	Contact Rating	50 W	50 W	50 W	50 W
	Contact Current	1.0 Amp	1.0 Amp	1.0 Amp	1.0 Amp
	Carry Current	5.2 Amp	5.2 Amp	5.2 Amp	5.2 Amp
	Switching Voltage	1000 VDC	1000 VDC	1000 VDC	1000 VDC
	Contact Voltage	1000 VDC	1000 VDC	1000 VDC	1000 VDC
	Contact Resistance	100 mΩ	100 mΩ	50 mΩ	50 mΩ
	Insulation Resistance	10 ¹⁰ Ω min.	10 ¹⁰ Ω min.	10 ¹⁰ Ω min.	10 ¹⁰ Ω min.
	Operate Time	3.0 mS	3.0 mS	2.5 mS	2.5 mS
	Release Time	3.0 mS	3.0 mS	2.0 mS	2.0 mS
	Operating temperature				
Reflow temperature					
電氣壽命 (代表例) Electrical Life	DC.1.0V,10mA 1000×10 ⁶ (R負荷)	DC.1.0V,10mA 1000×10 ⁶ (R負荷)	DC.1.0V,10mA 1000×10 ⁶ (R負荷)	DC.1.0V,10mA 1000×10 ⁶ (R負荷)	
High-frequency response					
外觀尺寸 DIMENSION					
	<p>TPM Part Ordering Code : □ = 1 (5VDC); 2 (12VDC); 3 (24VDC); 5 (3.3VDC)</p> <p>SANYU Part Ordering Code: ○○ = 03 (3.3VDC); 05 (5VDC); 12 (12VDC); 24 (24VDC)</p>				

TPM Part / No.	59W-2A21N2	60W-1C□0N0	60W-2C□0N0	61W-1C□1L0	
SANYU Part / No.					
外觀形狀 Appearance					
尺寸 Size (L×W×H) mm	27.5 x 10.5 x 9.5	35.3 x 13.3 x 11.3	40.9 x 26.0 x 10.9	41.7 x 14.7 x 11.3	
回路接續圖 Figure.(TOP VIEW)					
電氣規格	Contact Form	2 Form A	1 Form C	2 Form C	
	Coil Rating Voltage	12 V / 300Ω	5 V / 130Ω 12 V / 400Ω	5 V / 55Ω 12 V / 370Ω	5 V / 100Ω 12 V / 500Ω 24 V / 2000Ω
	Contact Rating	50 W	100 W	100 W	100 W
	Contact Current	1.0 Amp	2.0 Amp	2.0 Amp	2.0 Amp
	Carry Current	5.2 Amp	8.5 Amp	8.5 Amp	8.5 Amp
	Switching Voltage	1000 VDC	500 VDC	500 VDC	500 VDC
	Contact Voltage	2000 VDC	1000 VDC	1000 VDC	1000 VDC
	Contact Resistance	80 mΩ	30 mΩ	30 mΩ	30 mΩ
	Insulation Resistance	10 ¹² Ω min.	10 ⁹ Ω min.	10 ⁹ Ω min.	10 ⁹ Ω min.
	Operate Time	2.0 mS	2.0 mS	2.0 mS	2.0 mS
	Release Time	2.0 mS	2.0 mS	2.0 mS	2.0 mS
	Operating temperature				
Reflow temperature					
電氣壽命 (代表例) Electrical Life	DC.1.0V,10mA 1000×10 ⁶ (R負荷)	DC.1.0V,10mA 10000×10⁶ (R負荷)	DC.1.0V,10mA 10000×10⁶ (R負荷)	DC.1.0V,10mA 10000×10⁶ (R負荷)	
High-frequency response					
外觀尺寸 DIMENSION					
	<p>TPM Part Ordering Code : □ = 1 (5VDC); 2 (12VDC); 3 (24VDC); 5 (3.3VDC)</p> <p>SANYU Part Ordering Code: ○○ = 03 (3.3VDC); 05 (5VDC); 12 (12VDC); 24 (24VDC)</p>				

TPM Part / No.	80W-4A□0E0	80W-12A□0E0	80W-12A□1E0	85W-1A□0E0	
SANYU Part / No.	UPH-449○○	UPH-1249○○			
外觀形狀 Appearance					
尺寸 Size (L×W×H) mm	45.0 x 35.0 x 70.0	81.5 x 46.5 x 70.0	81.5 x 46.5 x 70.0	110.0 x 47.0 x 48.0	
回路接續圖 Figure.(TOP VIEW)					
電氣規格	Contact Form	2 Form A	2 Form A	2 Form A	1 Form A
	Coil Rating Voltage	5 V / 30Ω 12 V / 150Ω 24 V / 600Ω	5 V / 10Ω 12 V / 50Ω 24 V / 200Ω	5 V / 10Ω 12 V / 50Ω 24 V / 200Ω	12 V / 35Ω 24 V / 135Ω
	Contact Rating	100 W	100 W	100 W	3600 W
	Contact Current	2.0 Amp	2.0 Amp	2.0 Amp	50.0 Amp
	Carry Current	16.4 Amp	49.2 Amp	49.2 Amp	50.0 Amp
	Switching Voltage	500 VDC	500 VDC	500 VDC	240 VDC
	Contact Voltage	3000 VDC	3000 VDC	3000 VDC	2500 VDC
	Contact Resistance	40 mΩ	15 mΩ	15 mΩ	20 mΩ
	Insulation Resistance	10 ¹⁰ Ω min.	10 ¹⁰ Ω min.	10 ¹⁰ Ω min.	10 ¹⁰ Ω min.
	Operate Time	3.0 mS	3.0 mS	3.0 mS	80 mS
	Release Time	3.0 mS	3.0 mS	3.0 mS	80 mS
	Operating temperature				
Reflow temperature					
電氣壽命 (代表例) Electrical Life	DC.1.0V,10mA 10000×10 ⁶ (R負荷)	DC.1.0V,10mA 10000×10 ⁶ (R負荷)	DC.1.0V,10mA 10000×10 ⁶ (R負荷)	DC.1.0V,10mA 1000×10 ⁶ (R負荷)	
High-frequency response					
外觀尺寸 DIMENSION					
	<p>TPM Part Ordering Code : □ = 1 (5VDC); 2 (12VDC); 3 (24VDC); 5 (3.3VDC)</p> <p>SANYU Part Ordering Code: ○○ = 03 (3.3VDC); 05 (5VDC); 12 (12VDC); 24 (24VDC)</p>				

TPM Part / No.	90W-1A□1N3-43	90W-2A□1N3-43	90W-3A□1N3-43	91W-3A□1N3-60	
SANYU Part / No.					
外觀形狀 Appearance					
尺寸 Size (LxWxH) mm	28 x 8.5 x 8.5	28 x 12.2 x 8.5	28 x 15.5 x 9.1	28 x 9.1 x 15.5	
回路接續圖 Figure.(TOP VIEW)					
電氣規格	Contact Form	1 Form A	2 Form A	3 Form A	
	Coil Rating Voltage	5 V / 100Ω 12 V / 400Ω	5 V / 100Ω 12 V / 400Ω 24 V / 1600Ω	5 V / 60Ω 12 V / 300Ω	5 V / 80Ω 12 V / 300Ω 24 V / 1200Ω
	Contact Rating	50 W	50 W	50 W	50 W
	Contact Current	1.0 Amp	1.0 Amp	1.0 Amp	1.0 Amp
	Carry Current	5.2 Amp	5.2 Amp	5.2 Amp	5.2 Amp
	Switching Voltage	2000 VDC	2000 VDC	2000 VDC	2000 VDC
	Contact Voltage	3000 VDC	3000 VDC	3000 VDC	2500 VDC
	Contact Resistance	80 mΩ	80 mΩ	80 mΩ	80 mΩ
	Insulation Resistance	10 ¹³ Ω min.	10 ¹³ Ω min.	10 ¹³ Ω min.	10 ¹³ Ω min.
	Operate Time	2.5 mS	2.5 mS	2.5 mS	3.0 mS
	Release Time	2.0 mS	2.0 mS	2.0 mS	3.0 mS
	Operating temperature				
Reflow temperature					
電氣壽命 (代表例) Electrical Life	DC.1.0V,10mA 1000×10 ⁶ (R負荷)	DC.1.0V,10mA 1000×10 ⁶ (R負荷)	DC.1.0V,10mA 1000×10 ⁶ (R負荷)	DC.1.0V,10mA 1000×10 ⁶ (R負荷)	
High-frequency response					
外觀尺寸 DIMENSION					
TPM Part Ordering Code : □ = 1 (5VDC); 2 (12VDC); 3 (24VDC); 5 (3.3VDC)					
SANYU Part Ordering Code: ○○ = 03 (3.3VDC); 05 (5VDC); 12 (12VDC); 24 (24VDC)					

TPM Part / No.	94W-1A□1N0	94W-2A□1N0	94W-3A□1N0	94W-4A□1N0	
SANYU Part / No.					
外觀形狀 Appearance					
尺寸 Size (L×W×H) mm	22 x 8.5 x 8.5	22 x 12.2 x 8.5	22 x 15.5 x 9.1	22 x 19.0 x 9.1	
回路接續圖 Figure.(TOP VIEW)					
電氣規格	Contact Form	1 Form A	2 Form A	3 Form A	4 Form A
	Coil Rating Voltage	5 V / 150Ω 12 V / 800Ω 24 V / 2000Ω	5 V / 130Ω 12 V / 600Ω 24 V / 2000Ω	5 V / 80Ω 12 V / 400Ω 24 V / 1600Ω	5 V / 60Ω 12 V / 300Ω 24 V / 1200Ω
	Contact Rating	50 W	50 W	50 W	50 W
	Contact Current	1.0 Amp	1.0 Amp	1.0 Amp	1.0 Amp
	Carry Current	5.2 Amp	5.2 Amp	5.2 Amp	5.2 Amp
	Switching Voltage	1000 VDC	1000 VDC	1000 VDC	1000 VDC
	Contact Voltage	1500 VDC	1500 VDC	1500 VDC	1500 VDC
	Contact Resistance	80 mΩ	80 mΩ	80 mΩ	80 mΩ
	Insulation Resistance	10 ¹⁰ Ω min.	10 ¹⁰ Ω min.	10 ¹⁰ Ω min.	10 ¹⁰ Ω min.
	Operate Time	3.0 mS	3.0 mS	3.0 mS	3.0 mS
	Release Time	3.0 mS	3.0 mS	3.0 mS	3.0 mS
	Operating temperature				
	Reflow temperature				
電氣壽命 (代表例) Electrical Life	DC. 1.0V, 10mA 1000×10 ⁶ (R負荷)	DC. 1.0V, 10mA 1000×10 ⁶ (R負荷)	DC. 1.0V, 10mA 1000×10 ⁶ (R負荷)	DC. 1.0V, 10mA 1000×10 ⁶ (R負荷)	
High-frequency response					
外觀尺寸 DIMENSION					
TPM Part Ordering Code : □ = 1 (5VDC); 2 (12VDC); 3 (24VDC); 5 (3.3VDC)					
SANYU Part Ordering Code: ○○ = 03 (3.3VDC); 05 (5VDC); 12 (12VDC); 24 (24VDC)					

TPM Part / No.	98W-1A□1N2-60	98W-1C□1N0	135W-1A30N0		
SANYU Part / No.			HA708-109○○	USM-P130○○V-90	
外觀形狀 Appearance					
尺寸 Size (L×W×H) mm	37.0 x 12.5 x 12.5	37.0 x 12.5 x 12.5	85.7 x 19.7 x 18.2	70.6 x 24.0 x 25.0	
回路接續圖 Figure.(TOP VIEW)					
電氣規格	Contact Form	1 Form A	1 Form C	1 Form A	
	Coil Rating Voltage	5 V / 70Ω 12 V / 400Ω 24 V / 1600Ω	5 V / 70Ω 12 V / 400Ω 24 V / 1600Ω	5 V / 20Ω 12 V / 100Ω 24 V / 300Ω	12 V / 180Ω 24 V / 720Ω
	Contact Rating	100 W	100 W	250 W	250 W
	Contact Current	2.0 Amp	2.0 Amp	5.0 Amp	5.0 Amp
	Carry Current	8.5 Amp	8.5 Amp	10.0 Amp	10.0 Amp
	Switching Voltage	2000 VDC	2000 VDC	9000 VDC	9000 VDC
	Contact Voltage	4000 VDC	3000 VDC	10000 VDC	9000 VDC
	Contact Resistance	50 mΩ	50 mΩ	50 mΩ	50 mΩ
	Insulation Resistance	10 ¹² Ω min.	10 ¹⁰ Ω min.	10 ¹⁰ Ω min.	10 ¹⁰ Ω min.
	Operate Time	2.0 mS	2.0 mS	10.0 mS	10.0 mS
	Release Time	2.0 mS	2.0 mS	6.0 mS	10.0 mS
	Operating temperature				
	Reflow temperature				
電氣壽命 (代表例) Electrical Life	DC.1.0V,10mA 10000×10⁶ (R負荷)	DC.1.0V,10mA 10000×10⁶ (R負荷)	DC.1.0V,10mA 1000×10 ⁶ (R負荷)	DC.1.0V,10mA 1000×10 ⁶ (R負荷)	
High-frequency response					
外觀尺寸 DIMENSION					
TPM Part Ordering Code : □ = 1 (5VDC); 2 (12VDC); 3 (24VDC); 5 (3.3VDC)					
SANYU Part Ordering Code: ○○ = 03 (3.3VDC); 05 (5VDC); 12 (12VDC); 24 (24VDC)					