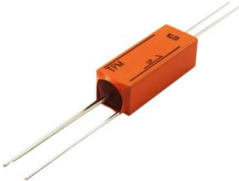


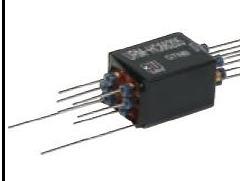
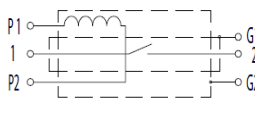
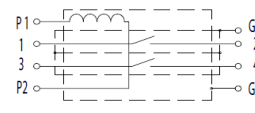
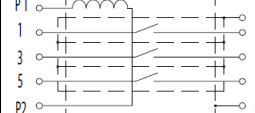
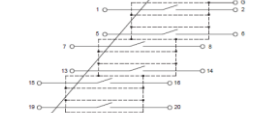


TPM Part / No.	25D-1A11N3(5V) 25D-1A21N3(12V) 25D-1A31N3(24V)	25D-2A11D3(5V) 25D-2A21D3(12V) 25D-2A31D3(24V)	137D-1A11N2(5V) 137D-1A21N2(12V) 137D-1A31N2(24V)		
SANYU Part / No.					
外觀形狀 Appearance					
尺寸 Size (LxWxH) mm	20.3 x 5.0 x 6.5	20.3 x 7.8 x 6.2	62.0 x 20.0 x 20.0		
回路接續圖 Figure.(TOP VIEW)					
電氣規格	Contact Form	1 Form A	2 Form A	1 Form A	
	Coil Rating Voltage	5 V / 160Ω 12 V / 600Ω 24 V / 1800Ω	5 V / 150Ω 12 V / 600Ω 24 V / 2000Ω	5 V / 30Ω 12 V / 180Ω 24 V / 700Ω	
	Contact Rating	10 W	10 W	50 W	
	Contact Current	0.5 Amp	0.5 Amp	<b>3.0 Amp</b>	
	Carry Current	1.0 Amp	1.0 Amp	<b>4.0 Amp</b>	
	Switching Voltage	100 VDC	100 VDC	<b>3500 VDC</b>	
	Contact Voltage	200 VDC	200 VDC	<b>5000 VDC</b>	
	Contact Resistance	150 mΩ	150 mΩ	200 mΩ	
	Insulation Resistance	10 <sup>13</sup> Ω min.	10 <sup>13</sup> Ω min.	10 <sup>12</sup> Ω min.	
	Operate Time	0.5 mS	0.5 mS	4.0 mS	
	Release Time	0.5 mS	0.5 mS	3.0 mS	
	Operating temperature				
Reflow temperature					
電氣壽命 (代表例) Electrical Life	<b>DC.1.0V,10mA</b> <b>1000×10<sup>6</sup> (R負荷)</b>	<b>DC.1.0V,10mA</b> <b>1000×10<sup>6</sup> (R負荷)</b>	<b>DC.1.0V,10mA</b> <b>100×10<sup>6</sup> (R負荷)</b>		
High-frequency response					
外觀尺寸 DIMENSION					

TPM Part / No.	90H-1A11N3-69(5V) 90H-1A21N3-69(12V) 90H-1A31N3-69(24V)		90H-2A11N3-69(5V) 90H-2A21N3-69(12V) 90H-2A31N3-69(24V)		
SANYU Part / No.	URM-19105GTNB(5V) URM-19112GTNB(12V) URM-19124GTNB(24V)	URM-19105GTOB(5V) URM-19112GTOB(12V) URM-19124GTOB(24V)	URM-29105GTNB(5V) URM-29112GTNB(12V) URM-29124GTNB(24V)	URM-29105GTOB(5V) URM-29112GTOB(12V) URM-29124GTOB(24V)	
外觀形狀 Appearance					
尺寸 Size (LxWxH) mm	28.0 x 8.5 x 8.5	28.0 x 8.5 x 8.5	32.0 x 12.2 x 8.5	32.0 x 12.2 x 8.5	
回路接續圖 Figure.(TOP VIEW)					
電氣規格	Contact Form	1 Form A	1 Form A	2 Form A	2 Form A
	Coil Rating Voltage	5 V / 250Ω 12 V / 1000Ω 24 V / 4000Ω	5 V / 250Ω 12 V / 1000Ω 24 V / 4000Ω	5 V / 160Ω 12 V / 800Ω 24 V / 3200Ω	5 V / 160Ω 12 V / 800Ω 24 V / 3200Ω
	Contact Rating	<b>100 W</b>	<b>100 W</b>	<b>100 W</b>	<b>100 W</b>
	Contact Current	1.0 Amp	1.0 Amp	1.0 Amp	1.0 Amp
	Carry Current	2.8 Amp	2.8 Amp	2.8 Amp	2.8 Amp
	Switching Voltage	<b>1000 VDC</b>	<b>1000 VDC</b>	<b>1000 VDC</b>	<b>1000 VDC</b>
	Contact Voltage	<b>3500 VDC</b>	<b>3500 VDC</b>	<b>3500 VDC</b>	<b>3500 VDC</b>
	Contact Resistance	150 mΩ	150 mΩ	150 mΩ	150 mΩ
	Insulation Resistance	10 <sup>13</sup> Ω min.	<b>10<sup>14</sup>Ω min.</b>	10 <sup>13</sup> Ω min.	<b>10<sup>14</sup>Ω min.</b>
	Operate Time	1.0 mS	1.0 mS	1.0 mS	1.0 mS
	Release Time	1.0 mS	1.0 mS	1.0 mS	1.0 mS
	Operating temperature				
Reflow temperature					
電氣壽命 (代表例) Electrical Life	DC.1.0V,10mA 100x10 <sup>6</sup> (R負荷)	DC.1.0V,10mA 100x10 <sup>6</sup> (R負荷)	DC.1.0V,10mA 100x10 <sup>6</sup> (R負荷)	DC.1.0V,10mA 100x10 <sup>6</sup> (R負荷)	
High-frequency response					
外觀尺寸 DIMENSION					

TPM Part / No.		95D-1A14N4(5V) 95D-1A24N4(12V) 95D-1A34N4(24V)	95D-2A14N4(5V) 95D-2A24N4(12V) 95D-2A34N4(24V)	95D-3A14N4(5V) 95D-3A24N4(12V) 95D-3A34N4(24V)	95D-1E14N4(5V) 95D-1E24N4(12V) 95D-1E34N4(24V)
SANYU Part / No.		URM-P12905GTOE(5V) URM-P12912GTOE(12V) URM-P12924GTOE(24V)	URM-P22905GTOE(5V) URM-P22912GTOE(12V) URM-P22924GTOE(24V)	URM-P32905GTOE(5V) URM-P32912GTOE(12V) URM-P32924GTOE(24V)	
外觀形狀 Appearance					
尺寸 Size (LxWxH) mm		29.0 x 10.2 x 8.3	29.0 x 12.8 x 8.3	29.0 x 16.6 x 8.6	32.0 x 12.8 x 8.3
回路接續圖 Figure.(TOP VIEW)					
電氣規格	Contact Form	1 Form A	2 Form A	3 Form A	1 Form C(1A+1B)
	Coil Rating Voltage	5 V / 450Ω 12 V / 2500Ω 24 V / 8000Ω	5 V / 260Ω 12 V / 1500Ω 24 V / 6000Ω	5 V / 180Ω 12 V / 1000Ω 24 V / 4000Ω	5 V / 250Ω 12 V / 1200Ω 24 V / 6000Ω
	Contact Rating	50 W	50 W	50 W	50 W
	Contact Current	0.5 Amp	0.5 Amp	0.5 Amp	0.5 Amp
	Carry Current	2.8 Amp	2.8 Amp	2.8 Amp	2.8 Amp
	Switching Voltage	350 VDC	350 VDC	350 VDC	350 VDC
	Contact Voltage	500 VDC	500 VDC	500 VDC	400 VDC
	Contact Resistance	150 mΩ	150 mΩ	150 mΩ	150 mΩ
	Insulation Resistance	10 <sup>14</sup> Ω min.	10 <sup>14</sup> Ω min.	10 <sup>14</sup> Ω min.	10 <sup>14</sup> Ω min.
	Operate Time	1.0 mS	1.0 mS	1.0 mS	1.0 mS
	Release Time	1.0 mS	1.0 mS	1.0 mS	1.0 mS
	Operating temperature				
Reflow temperature					
電氣壽命 (代表例) Electrical Life		DC.1.0V,10mA 1000×10 <sup>6</sup> (R負荷)	DC.1.0V,10mA 1000×10 <sup>6</sup> (R負荷)	DC.1.0V,10mA 1000×10 <sup>6</sup> (R負荷)	DC.1.0V,10mA 1000×10 <sup>6</sup> (R負荷)
High-frequency response					
外觀尺寸	DIMENSION				

TPM Part / No.	90D-1A21K32(12V)	90D-2A21K32(12V)	90D-3A11K32(5V) 90D-3A21K32(12V) 90D-3A31K32(24V)		
SANYU Part / No.				URM-HC66205GTNB(5V) URM-HC66212GTNB(12V) URM-HC66224GTNB(24V)	
外觀形狀 Appearance					
尺寸 Size (LxWxH) mm	28.0 x 8.5 x 8.5	28.0 x 12.3 x 8.5	28.0 x 15.5 x 8.8	20.0 x 19.5 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	6 Form A
	Coil Rating Voltage	12 V / 1000Ω	12 V / 1200Ω	5 V / 125Ω 12 V / 800Ω 24 V / 2400Ω	5 V / 70Ω 12 V / 400Ω 24 V / 1600Ω
	Contact Rating	50 W	50 W	50 W	<b>100 W</b>
	Contact Current	0.5 Amp	0.5 Amp	0.5 Amp	1.0 Amp
	Carry Current	2.8 Amp	2.8 Amp	2.8 Amp	2.8 Amp
	Switching Voltage	350 VDC	350 VDC	350 VDC	<b>1000 VDC</b>
	Contact Voltage	500 VDC	500 VDC	500 VDC	2500 VDC
	Contact Resistance	150 mΩ	150 mΩ	150 mΩ	150 mΩ
	Insulation Resistance	10 <sup>13</sup> Ω min.	10 <sup>13</sup> Ω min.	10 <sup>13</sup> Ω min.	10 <sup>13</sup> Ω min.
	Operate Time	1.0 mS	1.0 mS	1.0 mS	1.5 mS
	Release Time	1.0 mS	1.0 mS	1.0 mS	1.5 mS
	Operating temperature				
Reflow temperature					
電氣壽命 (代表例) Electrical Life	<b>DC.1.0V,10mA</b> <b>1000×10<sup>6</sup> (R負荷)</b>	<b>DC.1.0V,10mA</b> <b>1000×10<sup>6</sup> (R負荷)</b>	<b>DC.1.0V,10mA</b> <b>1000×10<sup>6</sup> (R負荷)</b>	DC.1.0V,10mA 100×10 <sup>6</sup> (R負荷)	
High-frequency response					
外觀尺寸 DIMENSION	