

SPECIFICATION

IRP

SUBMINIATURE POWER RELAY

CONTACT DATA

Contact arrangement	1A
Contact resistance	100mΩ (at 1A 6VDC)
Contact material	Silver Alloy
Contact rating (Res. load)	NO: 10A 250VA/30VDC TV-5 120VAC TENSION: >20g
Minimum load	100mA 5VDC
Max. switching voltage	250VAC / 110VDC
Max. switching current	10A
Max. switching power	2500VA / 300W
Mechanical endurance	1 x 10 ⁷ ops
Electrical endurance	1 x 10 ⁵ ops

CHARACTERISTICS

Insulation resistance		100MΩ (at 500VDC)
Dielectric strength	Between coil & contacts	4000VAC 1min
	Between open contacts	900VAC 1min
Operate time (at nomi. Volt.)		15ms max.
Release time (at nomi. Volt)		8ms max.
Shock resistance	Functional	100m/s²(10G)
	Destructive	1000m/s²(100G)
Vibration resistance		10Hz to 55Hz 1.5mm DA
Humidity		20% to 85% RH
Ambient temperature		-30°C to 70°C
Max. Switching Frequency	Mechanical	18,000 ops/hr
	Electrical	1,800 ops/hr
Termination		PCB
Unit weight		Approx. 11g
Construction		Wash tight, Flux proofed

Notes : 1) The data shown above are initial values.
2) Please find coil temperature curve in the characteristic curves below.

COIL

Coil power	250mW / 540mW
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COIL DATA(250mW) at 20°C

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Rated Current mA	Coil Resistance Ω
3	2.25	0.15	83	36 x (1±10%)
5	3.75	0.25	50	100 x (1±10%)
6	4.5	0.30	42	144 x (1±10%)
9	6.75	0.45	28	324 x (1±10%)
12	9.00	0.60	21	576 x (1±10%)
24	18.0	1.20	10	2304 x (1±10%)
48	36.0	2.40	5	9216 x (1±10%)

COIL DATA(540mW) at 20°C

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Rated Current mA	Coil Resistance Ω
3	2.25	0.15	180	17 x (1±10%)
5	3.75	0.25	108	46 x (1±10%)
6	4.5	0.30	90	67 x (1±10%)
9	6.75	0.45	60	3150 x (1±10%)
12	9.00	0.60	45	270 x (1±10%)
24	18.0	1.20	22.5	1050 x (1±10%)
48	36.0	2.40	11.3	4250 x (1±10%)

ORDERING INFORMATION

	IRP	-1A	D12	S	Nil
Type					
Contact form	1A : 1 Form A				
Coil voltage	5, 12, 24 VDC				
Construction	S : Sealed Type				
Coil power	Nil : 540mW M : 250mW				

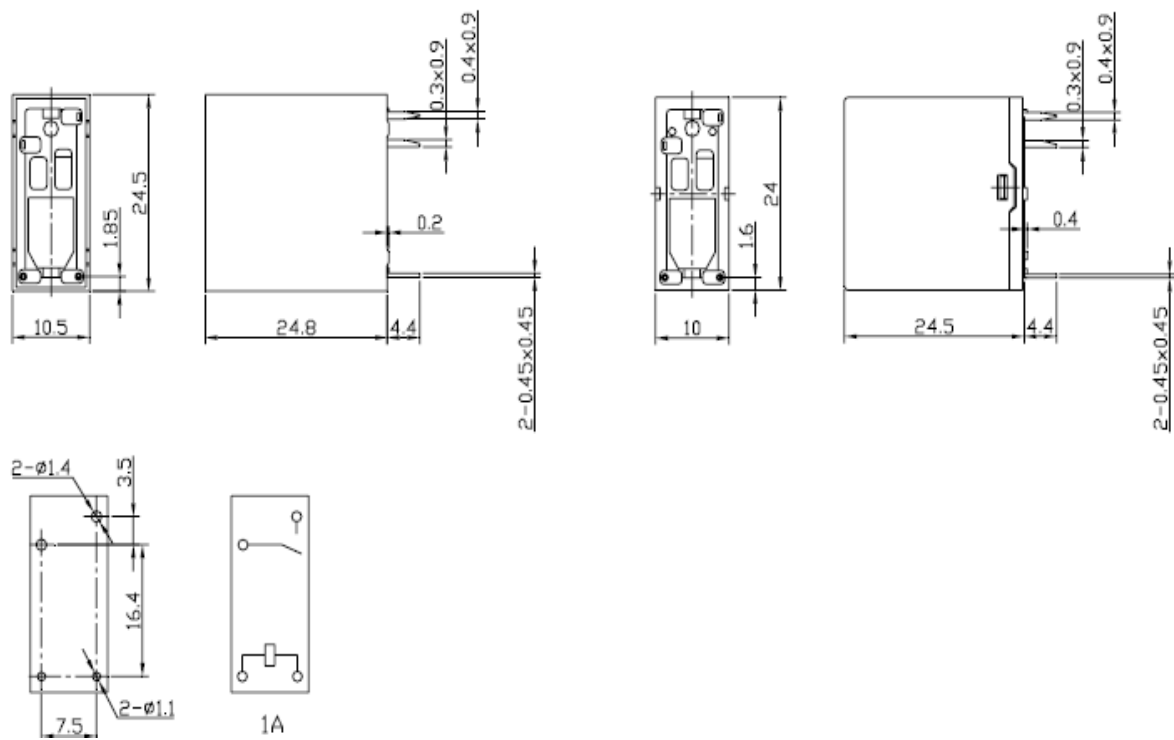
SAFETY APPROVAL RATINGS

UL&CUL	10A/250VAC/30VDC TV-5 5A120VAC	Life-Cycle:6000	MAX 40°
TUV	10A/250VAC/30VDC	Life-Cycle:10000	-40°C to +85°C

Notes : 1) Only some typical rating are listed above. If more details are required, please contact us.

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit:mm



CHARACTERISTIC CURVES

