

SPECIFICATION

IRK-H

SUBMINIATURE POWER RELAY

CONTACT DATA

Contact arrangement	1A	1C
Contact resistance	100mΩ (at 1A 6VDC)	
Contact material	Silver Alloy	
Contact rating (Res. load)	10A 240VAC / 10A 30VDC	
Max. switching voltage	250VAC/30VDC	
Max. switching current	12A	
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	5000VAC 1min
	Between open contacts	1000VAC 1min
Operate time (at nomi. Volt.)		20ms max.
Release time (at nomi. Volt)		10ms max.
Shock resistance	Functional	10G 11ms
	Destructive	100G 6ms
Vibration resistance		10Hz to 55Hz 1.5mm DA
Humidity		40 ~ 85%
Ambient temperature		-40°C to 85°C
Termination		PCB
Unit weight		Approx. 14g
Max. Switching frequency	Mechanical	18,000 ops/hr
	Electrical	1,800 ops/hr
Construction		Wash tight, Flux proofed

Notes : 1) The data shown above are initial values.

COIL

Coil power	540mW / 720mW
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COIL DATA

at 23°C

(540mW)

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Rated Current (mA)	Coil Resistance Ω
3	2.4	0.15	180	17 x (1±10%)
5	4.0	0.25	108	46 x (1±10%)
6	4.8	0.30	90	67 x (1±10%)
9	7.2	0.45	60	150 x (1±10%)
12	9.6	0.60	45	270 x (1±10%)
24	19.2	1.20	22.5	1050 x (1±10%)
48	38.4	2.40	11.3	4250 x (1±10%)

(720mW)

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Rated Current (mA)	Coil Resistance Ω
3	2.4	0.15	240	13 x (1±10%)
5	4.0	0.25	144	35 x (1±10%)
6	4.8	0.30	120	50 x (1±10%)
9	7.2	0.45	80	110 x (1±10%)
12	9.6	0.60	60	200 x (1±10%)
24	19.2	1.20	30	800 x (1±10%)
48	38.4	2.40	15	3200 x (1±10%)

ORDERING INFORMATION

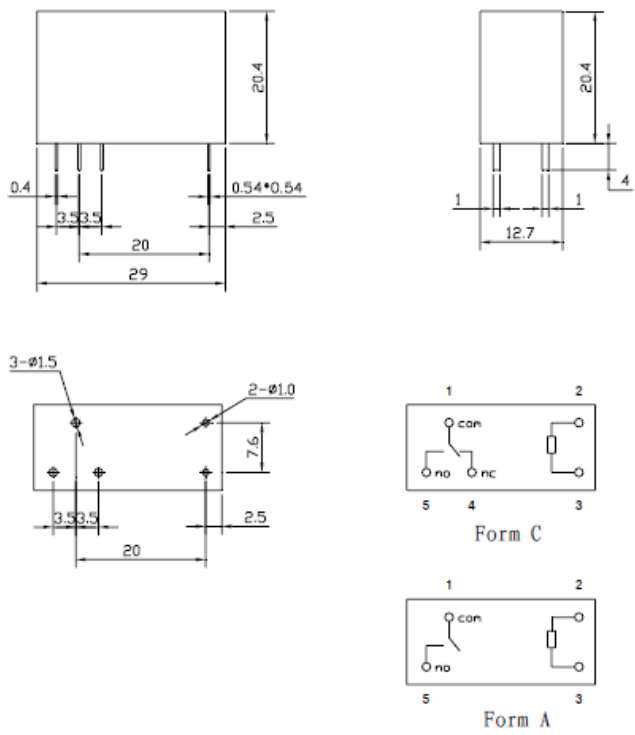
	IRK	-1C	H	D12	S	Nil	(2)
Type							
Contact Form	1A : 1 Form A , 1C : 1 Form C						
Contact Rating	H : 10A						
Coil Voltage	3, 5, 6, 9, 12, 24, 48 VDC						
Construction	S : Sealed Type						
Coil Power	Nil : 0.54W D : 0.72W						
Cover Type	(2) : Transparent cover Nil : Standard						

SAFETY APPROVAL RATINGS

UL&CUL	10A 240VAC/30VDC	3 to 48VDC	
TUV	10A 240VAC/30VDC	3 to 24 VDC	

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit:mm



CHARACTERISTIC CURVES

