

SPECIFICATION

IRT

AUTOMATIC RELAY

CONTACT DATA

Contact arrangement	1A	1C
Contact resistance	100mΩ (at 1A 6VDC)	
Contact material	Silver alloy	
Contact rating (Res. load)	NO: 20A 14VDC NC: 12A 14VDC 1C : 7A 120VAC	
Minimum load	100mA 5VDC	
Max. switching voltage	250VAC/16VDC	
Max. switching current	25A	
Max. switching power	840VA/280W	
Mechanical endurance	1 x 10 ⁷ ops	
Electrical endurance	1 x 10 ⁵ ops	

CONTACT DATA

Insulation resistance		100MΩ (at 500VDC)
Dielectric strength	Between coil & contacts	500VAC 1min
	Between open contacts	500VAC 1min
Operate time (at nomi. Volt.)		10ms max.
Release time (at nomi. Volt)		5ms max.
Shock resistance	Functional	10G
	Destructive	100G
Vibration resistance		10Hz to 55Hz 1.5mm DA
Humidity		35% ~ 85% RH
Ambient temperature		-40°C to 85°C
Max. Switching Frequency	Mechanical	18,000ops/hr
	Electrical	1,800ops/hr
Unit weight		Approx. 6g

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

2) Please find coil temperature curve in the characteristic curves below.

COIL

Coil power	360mW / 600mW / 800mW
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COIL DATA

at 23°C

(600mW)

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Rated Current (mA)	Coil Resistance Ω
6	3.9	0.48	100	60 x (1±10%)
9	5.85	0.72	66.7	135 x (1±10%)
12	7.8	0.96	50	240 x (1±10%)
24	15.6	1.92	25	960 x (1±10%)

(800mW)

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Rated Current (mA)	Coil Resistance Ω
6	3.9	0.48	133.3	45 x (1±10%)
9	5.85	0.72	88.9	100 x (1±10%)
12	7.8	0.96	66.7	180 x (1±10%)
24	15.6	1.92	33.3	720 x (1±10%)

(360mW)

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Rated Current (mA)	Coil Resistance Ω
6	4.5	0.48	133.3	45 x (1±10%)
9	6.75	0.72	88.9	100 x (1±10%)
12	9.0	0.96	66.7	180 x (1±10%)
24	18.0	1.92	33.3	720 x (1±10%)

ORDERING INFORMATION

Type		IRT	- 1 A	-D12	S
Contact form		1A : 1 Form A 1C : 1 Form C			
Coil voltage		6, 9, 12, 24 VDC			
Construction		S : Sealed type			

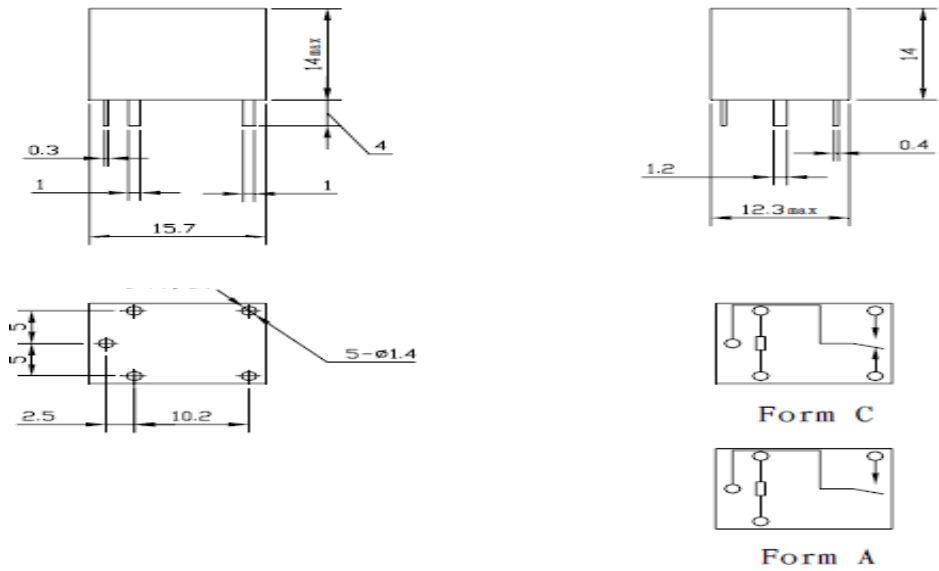
SAFETY APPROVAL RATINGS

UL&CUL	NO : 20A 14VDC NC : 12A 14VDC 7A 120VAC	6 to 24VDC	
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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

