

# SPECIFICATION

ITEM	MINIATURE RELAY (Lead Free Application)	MODEL NO.	IRJ
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● COIL VOLTAGE : DC 5, 9, 12, 24V

● APPROVAL

UL ( E195815 ) / VDE ( 115366 ) / TUV( R9859574 )

● CONTACT

Arrangement		1 Form A	1 Form C
Rating (Resistive-load) Nominal switching capacity		UL:10A 125VAC 5A 250VAC 5A 30VDC TUV:5A 240VAC 5A 30VDC VDE:5A 250VAC	UL:3A 250VAC 3A 30VDC TUV:3A 240VAC 3A 30VDC VDE:3A 250VAC
Max. switching current		5A	3A
Max. switching voltage		250VAC , 30VDC	
Max. switching power		1250VA , 150W	750VA , 90W
Contact resistance		100mΩ Max(at 1A 24VDC)	
Life – expectance	mechanical	1×10 <sup>7</sup> ops. Min	
	electrical	1×10 <sup>5</sup> ops. Min	
Contact material		AgSnO <sub>2</sub>	

● CHARACTERISTICS

Operate time		8.0 msec Max
Release time		5.0 msec Max
Insulation resistance		100 MΩ (DC500V)
Dielectric strength Between open contacts Between contacts and coil		1000VAC 50/60 HZ 1Minute 2500VAC 50/60 HZ 1Minute
Operating frequency		30ops / Minute
Surge Voltage		10,000V(between coil and contact)
Coil temperature rise		40 deg Max
Ambient temperature		-30 ~ +70℃
Shock resistance	Functional	10G Min
	Endurance	100G Min
Vibration resistance	Functional	10 to 55HZ Double Amplitude 1.5mm
	Endurance	10 to 55HZ Double Amplitude 4.0mm
Weight		Abt 6.0g

## ● COIL DATA

Nominal voltage VDC	Pick-up voltage VDC(Max)	Drop-out voltage VDC(Min)	Nominal current mA(±10%)	Coil resistance Ω (±10%)	Power consumption (mW)	Max.allowable voltage (VDC)
5	3.75	0.25	40	125	200	110%
9	6.75	0.45	22.5	400		
12	9	0.6	16.7	720		
24	18	1.2	8.57	2800		

Nominal voltage VDC	Pick-up voltage VDC(Max)	Drop-out voltage VDC(Min)	Nominal current mA(±10%)	Coil resistance Ω (±10%)	Power consumption (mW)	Max.allowable voltage (VDC)
5	3.75	0.25	90.9	55	450	110%
9	6.75	0.45	50	180		
12	9	0.6	37.5	320		
24	18	1.2	18.75	1280		

## ● ORDERING INFORMATION

IRJ	1A	D12	S	□
MODEL NAME	Contact Form	Coil Vtg	S:Sealed Type	Coil Power
	1A : SPST 1C : SPDT	5-24VDC		Nil:0.2W L:0.45W