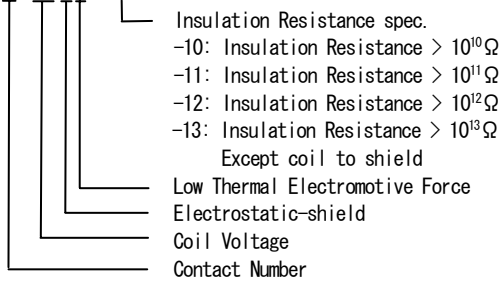


# Thermal Electromotive Force Type (1~4a Reed Relay)

## ■ Part number · Feature

### ● TRD-**0**\*\*SF-**\*\***



- Low thermal electromotive force  $30\mu V$

## ■ Performance

Specifications	Item	Standard
Contact Specifications	Contact Form	1a, 2a, 3a, 4a (make)
	Contact Rating	50W
	Max. Switching Voltage	DC. 200V
	Max. Switching Current	1 A
	Max. Carry Current	2 A
	Contact Resistance	150 mΩ MAX (Initial)
Electrical Specifications	Breakdown Voltage	Open Contacts DC. 400V (1 min) Contact to coil DC. 500V (1 min) Contact to shield DC. 500V (1 min) Shield to coil DC. 500V (1 min)
	Insulation Resistance	Between all isolated pins $1 \times 10^9\Omega$ MIN (DC. 100V)
	Capacitance	Open Contacts 0.5pF TYP.
	Thermal Electromotive Force	$3\mu V$ TYP.
	Operate Time	(incl. bounce) 1.2 mS MAX. (at Nominal Voltage)
Mechanical Specifications	Release Time	1.0 mS MAX. (at Nominal Voltage)
	Vibration	20G (0 to 2KHz 1.5mm)
	Shock	30G (1mS 1/2 Sin Wave)
Environment	Operating Temperature	-10°C to +60°C
Life Expectancy	Mechanical	$1 \times 10^8$ MIN. Operations
	Electrical	DC. 10mV-10μA $1 \times 10^8$ MIN. Operations (R.L.)

## ■ Coil Specifications

Contact Form	Part Number	Nominal Voltage DC. $\pm 10\%$ (V)	Coil Resistance $\pm 10\%$ ( $\Omega$ ) at 20°C	Nominal Current (mA)	Must Operate Voltage MAX. (V) at 20°C
1a	TRD-1024SF	24	6000	4.0	16.8
	TRD-1012SF	12	2400	5.0	8.4
	TRD-1005SF	5	600	8.3	3.8
2a	TRD-2024SF	24	6000	4.0	16.8
	TRD-2012SF	12	1500	8.0	8.4
	TRD-2005SF	5	500	10.0	3.8
3a	TRD-3024SF	24	5000	4.8	16.8
	TRD-3012SF	12	1250	9.6	8.4
	TRD-3005SF	5	300	16.7	3.8
4a	TRD-4024SF	24	3000	8.0	16.8
	TRD-4012SF	12	750	16.0	8.4
	TRD-4005SF	5	150	33.3	3.8

■ Dimensions /Terminal Identification (Unit:mm)

Dimensions	Terminal Identification	
<p><b>TRD-1000SF (Form 1a Make)</b></p> <p>weight about 14gr.</p>		
<p><b>TRD-2000SF (Form 2a Make)</b></p> <p>weight about 17gr.</p>		
<p><b>TRD-3000SF (Form 3a Make)</b></p> <p>weight about 21gr.</p>		
<p><b>TRD-4000SF (Form 4a Make)</b></p> <p>weight about 29gr.</p>		