

High Temperature Operation 1 Make type (1a Reed Relay)

■ Part number - Feature

● HFS-1A-054D

D: Diode



- Small size, low stray capacitance, coil with diode
Operating Temperature -55 to +85°C (no dew)
Storage temperature -55 to +155°C (no dew)

■ Performance

Specifications	Item	Standard
Contact Specifications	Contact Form	1 a (make)
	Contact Rating	10 W
	Max. Switching Voltage	DC 100 V
	Max. Switching Current	0.5 A
	Max. Carry Current	1.0 A
	Contact Resistance	150mΩ MAX. (Initial)
Electrical Specifications	Break Voltage	Between Contact DC 200V Contacts to coil DC 200V Contacts to shield DC 200V Coil to shield DC 200V
	Insulation Resistance	Between all isolated pins $1 \times 10^{10} \Omega$ MIN. (DC 100V)
	Capacitance	Across Open contacts 0.1pF Typ. (shield guarding) Contact to shield 2.0pF Typ.
	Thermal Electromotive Force	40 μ V Typ.
	Operate Time	(incl. bounce) 0.5mS MAX. (at Nominal Voltage)
	Release Time	0.2mS MAX. (at Nominal Voltage)
Mechanical Specifications	Vibration	20 G (0~2KHz, 1.5mm)
	Shock	30 G (11mS, 1/2 Sin Wave)
Environment	Operating Temperature	-55°C~+85°C
Life Expectancy	Mechanical	1×10^8 MIN. Operations
	Electrical	

■ Coil Specifications

Contact Form	Part Name	Nominal Voltage DC $\pm 10\%$ (V)	Coil Resistance $\pm 10\%$ (Ω) at 20°C	Nominal Current (mA)	Must-Operate Voltage MAX. (V) at 20°C
1a	HFS-1A-054D	5	160	31.3	3.0

■ Dimensions/Terminal Identification (Unit:mm)

Dimensions	Terminal Identification
<p>Index pin 1</p> <p>HFS-1A-054D</p> <p>OKITA ZND/A</p> <p>Week</p> <p>Month</p> <p>Year</p> <p>MAX</p> <p>20.3</p> <p>5.05</p> <p>5.0-4.5</p> <p>15.24</p> <p>2.54</p> <p>0.1</p> <p>1</p> <p>6</p> <p>7</p> <p>8</p> <p>9</p> <p>BOTTOM VIEW</p> <p>Weight: about 1.5gr</p>	<p>TOP VIEW</p> <p>(-) 16 (+) 9</p> <p>9 (+) - 16 (-) ... COIL (RQ)</p> <p>1-8 ... CONTACT (N. O)</p> <p>7 ... GUARD (Electrostatic shield)</p> <p>1</p> <p>7</p> <p>8</p>

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