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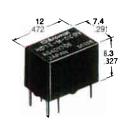
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ULTRA-MINIATURE SINGLE POLE RELAY

HD-RELAYS





UL File No.: E57521 CSA File No.: LR26550

- Ideal for portable devices! Only 1.7 g.
- Dimensions:
- 8.3 mm height \times 12 mm length \times 7.4 mm width .327 inch height \times .472 inch length \times .291 inch width
- High sensitivity: 280 mW nominal operating power
- Gold-clad bifurcated contact for high reliability
- Sealed construction

mm inch

SPECIFICATIONS

Minimum operating power

Nominal operating power

Arrangemer	nt	1 Form C		
Initial contac (By voltage	ct resistance, drop 6 V DC	100 mΩ		
Contact ma	terial		Gold-clad silver	
Rating (resistive)	Max. switchi	ng power	30 W, 50 VA	
	Max. switchi	ng voltage	60 V DC, 125 V AC	
	Max. switchi		1 A DC, AC	
	Max. carryin		2 A DC, AC	
UL/CSA rat	ina		1 A 30 V DC	
Expected life (min.		(at 180 cpm)	5×10 ⁶	
	Electrical (at 20 cpm)	1 A 30 V DC	10 ⁵	
		0.5 A 100 V AC	10 ⁵	
Coll (at 25		<u> </u>		
	perating pow		179 to 192 mW	

Characteristics (at 25°C 77°F, 50% Relative humidity)

· · · · · · · · · · · · · · · · · · ·					
eed		20 cpm (at nominal voltage)			
	ce*1	Min. 100 MΩ at 500 V DC			
		500 Vrms			
		500 Vrms			
out dio		Max. 10 ms (Approx. 3 ms)			
out dio	de)*3	Max. 5 ms (Approx. 3 ms)			
		Max. 50°C with nominal coil voltage and at maximum switching current			
Functional*4		Min. 98 m/s² {10 G}			
Destructive*5		Min. 980 m/s ² {100 G}			
Functional*6		58.8 m/s² {6 G}, 10 to 55 Hz at double amplitude of 1 mm			
Destructive		117.6 m/s² {12 G}, 10 to 55 Hz at double amplitude of 2 mm			
ge*7	Ambient temp.	-25°C to +60°C -13°F to +140°F			
	Humidity	5 to 85% R.H.			
		1.7 g .06 oz			
	peed pesistance pen ope pen control out dioc p) pout dio p) pe) Funct Destr	een open contacts een contact and coil out diode)*3 e) out diode)*3 e) out diode)*3 e) out diode)*3 e) Functional*4 Destructive*5 Functional*6 Destructive ration, ge*7 ondens-			

Remarks

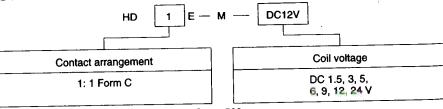
280 to 330 mW

- " Measurement at same location as "Intial breakdown voltage" section
- *2 Detection current: 10mA
- *3 Excluding contact bounce time
- *4 Half-wave pulse of sine wave: 11ms; detection time: 10μs
- *5 Half-wave pulse of sine wave: 6ms
- *6 Detection time: 10µs
- *7 Refer to 5. Conditions for operation, transport and storage mentioned in AMBIENT ENVIRONMENT (Page 45)

TYPICAL APPLICATION

- 1. Low voltage signal change-over in portable VCR, camera, audio, and other small household devices.
- 2. Use in lap top computers and other small computer and peripheral devices (printers, plotters, etc.).

ORDERING INFORMATION



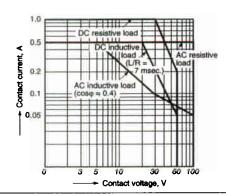
Note: Standard packing; Carton: 100 pcs. Case: 500 pcs.

TYPES AND COIL DATA (at 20°C 68°F)

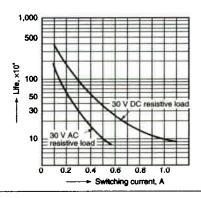
Part No.	Nominal voltage V DC	Pick-up voltage, VDC (max.)	Drop-out voltage, V DC (min.)	Coil resistance Ω (±10%)	Nominal operating current, mA	Nominal operating power, mW	Max. allowable voltage, V DC (at 60°C 140°C)
HD1E-M-DC1.5V	1.5	1.2	0.15	8	187.5	280	1.65
HD1E-M-DC3V	3	2.4	0.3	32	93.7	280	3.3
HD1E-M-DC5V	5	4.0	0.5	89	56.1	280	5.5
HD1E-M-DC6V	6	4.8	0.6	128	46.8	280	6.6
HD1E-M-DC9V	9	7.2	0.9	270	33.3	280	9.9
HD1E-M-DC12V	12	9.6	1.2	515	23.5	280	13.2
HD1E-M-DC24V	24	19.2	2.4	2,060	11.6	280	26.4

REFERENCE DATA

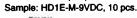
1. Maximum switching power

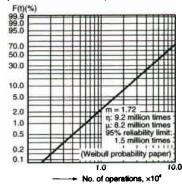


2. Life curve

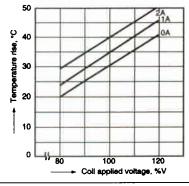


3. Contact reliability test Condition: 1 V, 1 mA, 1 kHz AC Detection level (5 Ω)

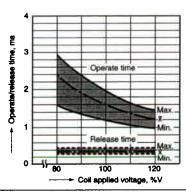




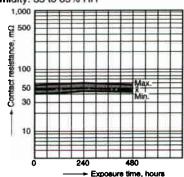
4. Coil temperature rise



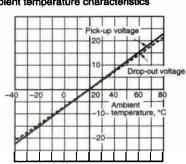
5. Operate/release time



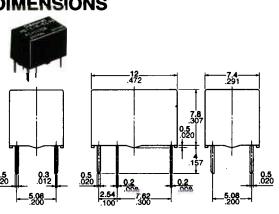
6. H₂S gas test Gas density: 2 to 5 ppm Ambient temperature 35 to 37°C 95 to 99°F Humidity: 35 to 85% RH



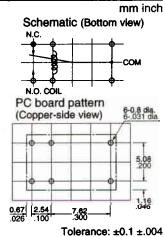
7. Ambient temperature characteristics



DIMENSIONS



General tolerance: ±0.3 ±.012



For Cautions for Use, see Relay Technical Information (Page 32 to 60).