

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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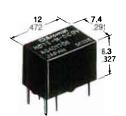




ULTRA-MINIATURE SINGLE POLE RELAY

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

Arrangement			1 Form C		
Initial conta (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				
	Max. carryin		2 A DC, AC		
UL/CSA rating			1 A 30 V DC		
Expected life (min. operations)		(at 180 cpm)	5×10 ⁶		
	Electrical	1 A 30 V DC	10 ⁵		
		0.5 A 100 V AC	10⁵		

Coll (at 25°C 77°F)					
Minimum operating power	179 to 192 mW				
Nominal operating power	280 to 330 mW				

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

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Max. operating speed				20 cpm (at nominal voltage)			
Initial insulation resistance*1				Min. 100 MΩ at 500 V DC			
Initial break- Between open contacts				500 Vrms			
				500 Vrms			
Operate time (at nominal v	(with	out dio		Max. 10 ms (Approx. 3 ms)			
Release time	(with	out dio	de)*3	Max. 5 ms (Approx. 3 ms)			
Temperature	e rise voltag	e)		Max. 50°C with nominal coil voltage and at maximum switching current			
Shock resistance		Functional*4		Min. 98 m/s² {10 G}			
		Destructive*5		Min. 980 m/s² {100 G}			
Vibration		Functional*6		58.8 m/s² {6 G}, 10 to 55 Hz at double amplitude of 1 mm			
resistance	ce		uctive	117.6 m/s² {12 G}, 10 to 55 Hz at double amplitude of 2 mm			
transport and storage*7 (Not freezing and condens-		Ambient temp.	-25°C to +60°C -13°F to +140°F				
			Humidity	5 to 85% R.H.			
Unit weight				1.7 g .06 oz			

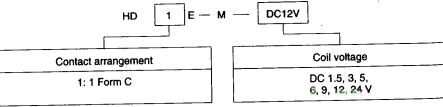
Remarks

- * 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

- 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



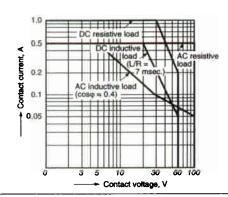
Note: Standard packing; Carton: 100 pcs. Case: 500 pcs.

TYPES AND COIL DATA (at 20°C 68°F)

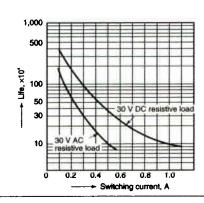
Part No.	Nominal voltage V DC	Pick-up voltage, VDC (max.)	Drop-out voltage, V DC (min.)	Coil resistance Ω (±10%)	Nominal operating current, mA	Nominal operating power, mW	Max. allowable voltage, V DC (at 60°C 140°C)
HD1E-M-DC1.5V	1.5	1.2	0.15	8	187.5	280	1.65
HD1E-M-DC3V	3	2.4	0.3	32	93.7	280	3.3
HD1E-M-DC5V	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

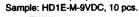
1. Maximum switching power

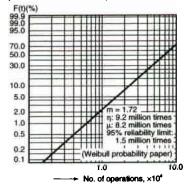


2. Life curve

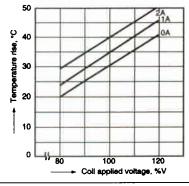


3. Contact reliability test Condition: 1 V, 1 mA, 1 kHz AC Detection level (5 Ω)

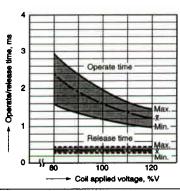




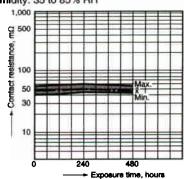
4. Coil temperature rise



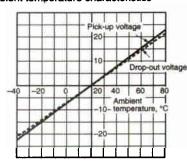
5. Operate/release time



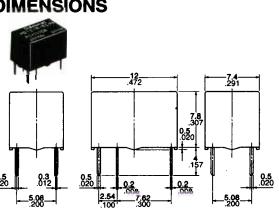
6. H₂S gas test Gas density: 2 to 5 ppm Ambient temperature 35 to 37°C 95 to 99°F Humidity: 35 to 85% RH



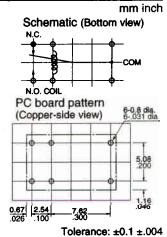
7. Ambient temperature characteristics



DIMENSIONS



General tolerance: ±0.3 ±.012



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