

FEATURES

- Two independent relay installed in one package
- 15A continuous current capacity
- For use in motor reversing functions of various automotive applications

TYPICAL AUTOMOTIVE APPLICATIONS

- Power window
- Power antenna
- Interval wiper
- Slide roof control
- Tilt lock wheel
- Automotive door lock
- Automatic seat adjustment

CONTACT DATA (EACH SIDE)

Form		1 Form A (H)	1 Form B (D)	1 Form C (Z)		1 Form U (SH)	1 Form V (SD)	1 Form W (SZ)	
				NO	NC			NO	NC
Max. Switching Current	Make	60A (S:100A)	12A	60A (S:100A)	12A	2 x 40A (S:70A)	2 x 8A	2 x 30A (S:50A)	2 x 5A
	Break	20A	10A	20A	10A	2 x 20A	2 x 7A	2 x 15A	2 x 5A
Material		AgNi0.15, AgSnOInO							
Initial Contact Resistance		100 mΩ max. at 0.1A, 6VDC							
Max. Switching Voltage		See curve, current dependent							
Max. Continuous Current		15A	10A	15A	10A	2 x 10A	2 x 7A	2 x 7A	2 x 5A
Min. Load		0.5A, 5VDC							
Service Life	Mechanical	10 ⁷ ops.							
	Electrical	2 x 10 ⁵ ops, see Note 4							

COIL DATA (EACH SIDE)

Coil Voltage Code	Nominal Voltage (VDC)	Resistance (Ω) ±10%	Must Operate Voltage max. (VDC)		Allowable Voltage (VDC)	Must Release Voltage min. (VDC)	
			A, B, C, U, V	W		B, V	A, C, U, W
006	6	28	3.75	4.5	8	0.35	0.7
012	12	130	7.50	9.0	16	0.70	1.4
024	24	520	15.00	18.0	31	1.40	2.8

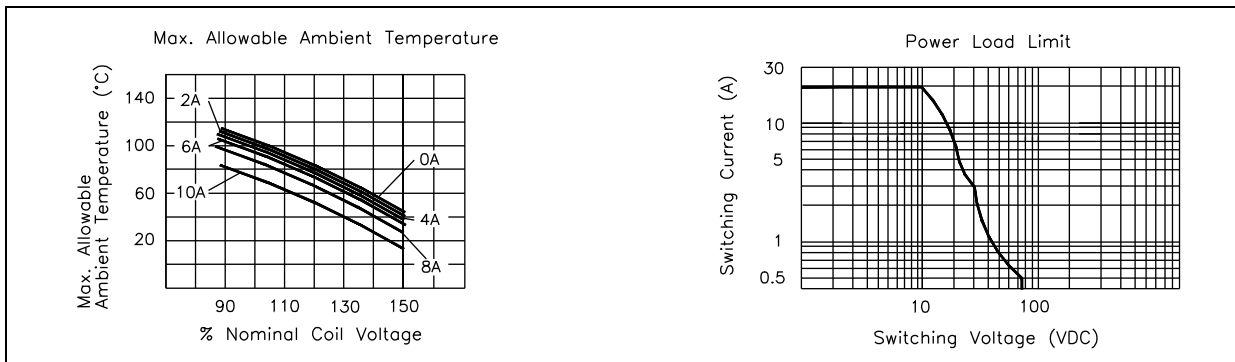
CHARACTERISTICS

Operate Time	3 ms. typical
Release Time	1.5 ms. typical
Insulation Resistance	100 MΩ, at 500 VDC, 50%RH
Dielectric Strength	500 Vrms, 1 min.
Shock Resistance	10 g, 11ms.
Vibration Resistance	DA 1.5mm, 20 - 200 Hz, functional
Drop Resistance	1 M height drop on concrete in final enclosure
Power Consumption	1.1 W, approx. each side
Ambient Temperature	-40°C to 85°C operating; -40°C to 155°C storage
Weight	23 g, approx.

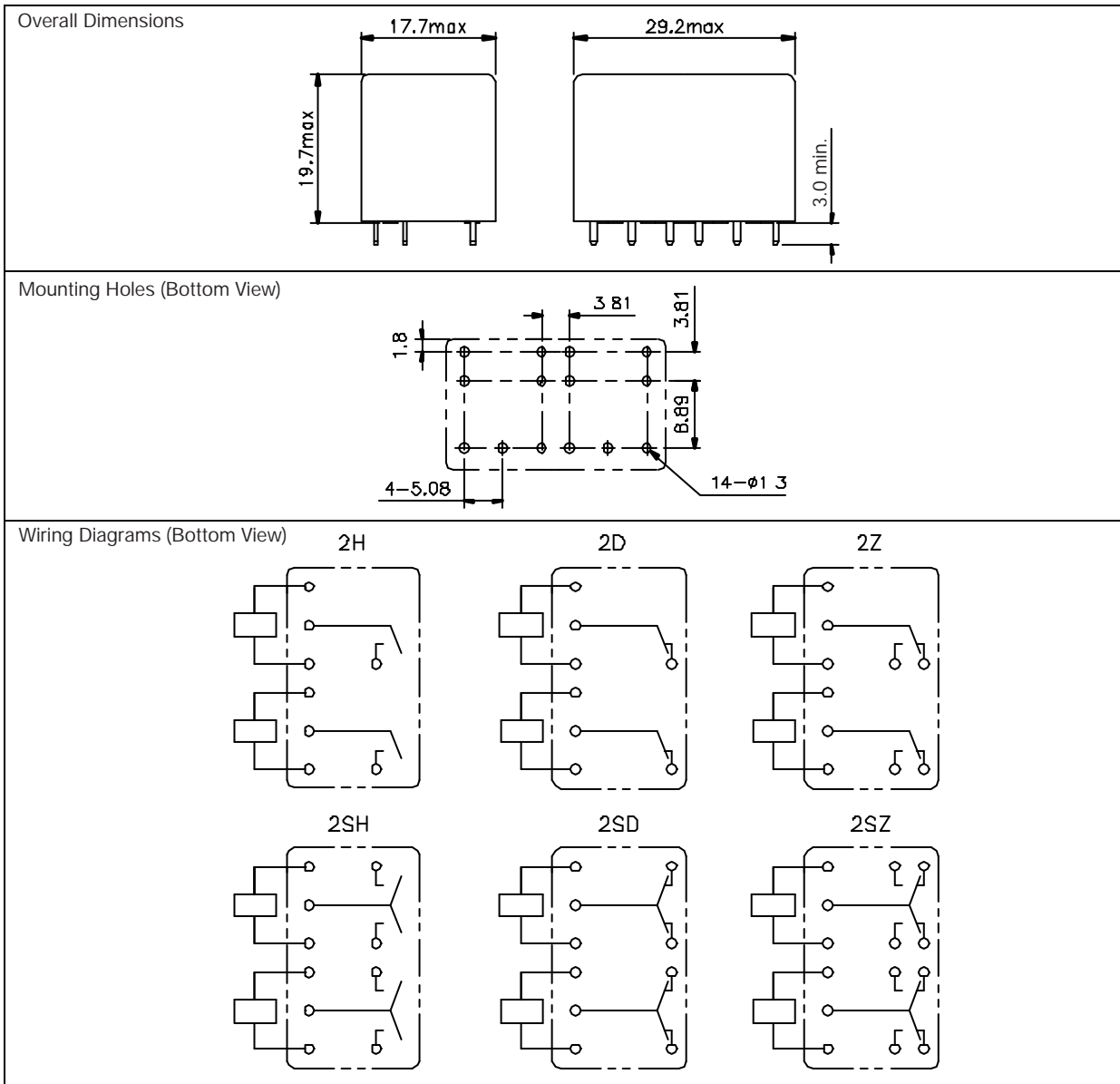
ORDERING DESIGNATION

Example:	HG4538 /	012 -	2Z	1	A
Model					
Coil Voltage code					
Contact Form					
2H: 2 x 1 Form A ; 2SH: 2 x 1 Form U					
2D: 2 x 1 Form B ; 2SD: 2 x 1 Form V					
2Z: 2 x 1 Form C ; 2SZ: 2 x 1 Form W					
Version					
1: Sealed; 2: Dust Cover					
Contact Material					
Nil: AgNi10; A: AgNi0.15; C: AgCdO; S: AgSnOInO					

REFERENCE CURVES



OVERALL DIMENSIONS, MOUNTING HOLES AND WIRING DIAGRAMS (mm)



NOTES

1. All parameters, unless otherwise specified, are measured at ambient temperature 23°C.
2. Maximum make current refers to inrush current of lamp load.
3. At ambient temperature of 85°C, maximum allowable voltage should be reduced to 72%.
4. Electrical life obtained at resistive or inductive load at 10A, 15VDC for A, B, C, U, V forms, 7A, 15VDC for W form, with suitable arc-suppression circuit attached with operating frequency of 1 ops/sec.
5. Custom-made services available with operational quantity. Please let us know your special requirements.
6. Specifications subject to change without prior notice.