



### **FEATURES**

- Two independent relay installed in one package
- Miniaturized structure, light weight

# TYPICAL AUTOMOTIVE APPLICATIONS

- Power antenna
  Power window
  Interval wiper
  Slide roof control

   Tilt lock wheel
   Automatic door lock
   Automatic seat adjustment
   Immobilizers

### **CONTACT DATA**

Form		2 Form C (2Z)		
Max. Switching Current	Make	30A		
	Break	30A		
Material		AgNi0.15, AgSnOlnO		
Max. Switching Voltage		See curve, Current dependent		
Max. Continuous Current		30A		
Min. Load		0.1A, 12VDC		
Service Life	Mechanical	10 <sup>7</sup> ops.		
	Electrical	10 <sup>5</sup> ops. see Note 3		

## COIL DATA

Туре	Coil Voltage Code	Nominal Voltage (VDC)	Resistance $(\Omega) \pm 10\%$	Must Operate Voltage max. (VDC)	Allowable Voltage (VDC)	Must Release Voltage min. (VDC)
Standard 0.8W	006	6	45	2.9	12.6	0.40
	009	9	100	4.4	19.0	0.60
	012	12	178	5.8	25.3	0.80
Sensitive 0.6W	006	6	64	3.5	15.0	0.50
	009	9	135	5.2	22.5	0.75
	012	12	255	6.9	30.0	1.00

# **CHARACTERISTICS**

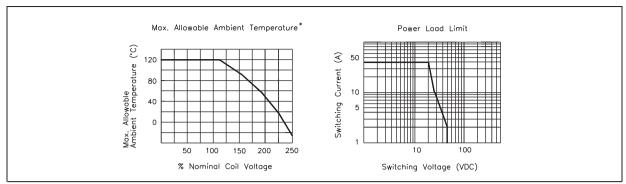
Operate Time	3 ms. typical	
Release Time	1.3 ms. typical	
Insulation Resistance	100 MΩ, at 500 VDC, 50%RH	
Dielectric Strength	500 Vrms, 1 min.	
Shock Resistance	30 g, 6ms.	
Vibration Resistance	6g / 30g, 10 - 200 Hz	
Drop Resistance	1 M height drop on concrete	
Power Consumption	Standard: 0.8W; Sensitive: 0.6W	
Ambient Temperature	-40 C to 85 C operating; -40 C to 125 C storage	
Weight	10 g, approx.	

## ORDERING DESIGNATION

	Example:	HG4519 /	012 -	2Z	1	А	L
Model	_						
Coil Voltage Code							
Contact Form 2Z: 2 Form C							
Version 1: Sealed							
Contact Material A: AgNi0.15; S: AgSnO							
Coil Sensitivity Nil: Standard 0.8W; L: Se	ensitive 0.6W						

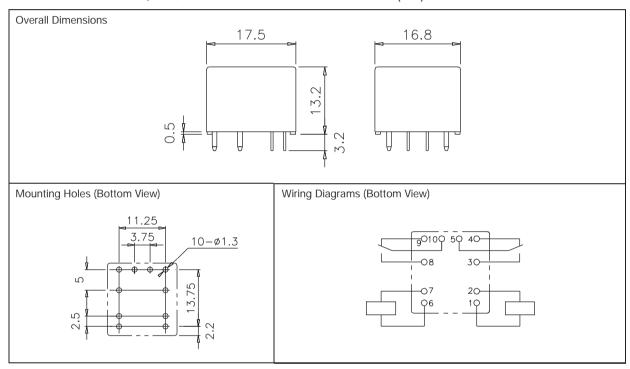
HG4519 1/2 Last updated 040423

### REFERENCE CURVE



<sup>\*</sup> Not consider temperrature rise caused by contact current.

### OVERALL DIMENSIONS, MOUNTING HOLES AND WIRING DIAGRAM (mm)



### **NOTES**

- 1. All parameters, unless otherwise specified, are measured at ambient temperature 23°C.
- 2. Maximum make current refers to inrush current of motor load.
- 3. Electrical life obtained at motor load of locked rotor at 25A, 13.5VDC with operating frequency of 1 ops/sec.
- 4. Custom-made services available with operational quantity. Please let us know your special requirements.
- 5. Specifications subject to change without prior notice.

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