Item Number: 501687

HFV6-G

AUTOMOTIVE RELAY

Features

- 35A switching capability
- Ambient temp.: range up to 125°C
- 1 Form A & 1 Form C contact arrangement
- Plastic sealed and dust protected types available
- RoHS & ELV compliant

Typical Applications

Heaters (seat, front/rear windows), Fan motors control, Fuel pump control, Wiper motors control, Headlight control, Air-conditioning, Lighting control, Electromagnet control, Start / Stop control

CHARACTERIST	ICS			
Contact arrangement	1A, 1C			
Voltage drop (initial)	NO:Typ.15mV,250mV max.(at 10A)	Vibration resistance 4)		
voltage drop (iriitiai)	NC:Typ.25mV,250mV max.(at 10A)			
Max. continuous current 1)	NO: 35A(23°C)、30A(85°C)、18A(125°C)			
	NC: 25A(23°C)、20A(85°C)、10A(125°C)	Shock resistance 4)		
Typ. switching current	Lamp:Make inrush peak current 150A	Flammability ⁵⁾		
	Resistive:Breake 35A	Termination		
Max. switching voltage	16VDC	Construction		
Min. contact load	1A 12VDC	Unit weight		
Electrical endurance	1×10 ⁵ ops		,	
Mechanical endurance	1 x 10 ⁷ ops (300ops/min)	Mechanical data		
Initial insulation resistance	100MΩ (at 500VDC)			
Dielectric strength ²⁾	500VAC	1) = 110		
Operate time	Typ.: 5ms (at nomi. vol.)	 For NO contacts, meas 1) Imin, leakage current 		
Operate time	Max.: 10ms (at nomi. vol.)	The value is measured v voltage to 0 VDC and co		
Release time 3)	Typ.: 2ms	Typ.: 2ms 4) When energized, ope		
Release lille	Max.: 10ms	when non-energized		

Vibration resistance 4)	5Hz to 17.3Hz 10mm DA					
	17.3Hz to 50Hz 58.9m/s					
	50Hz to 100Hz 29.4m/s					
	100Hz to 200Hz 19.4m/s ²					
Shock resistance 4)	196m/s ² (20g)					
Flammability ⁵⁾	UL94-HB or better (meets FMVSS 302)					
Termination	QC ⁷⁾					
Construction	Plastic sealed, Dust protected					
Unit weight	Approx. 22g					
	cover retention (pull & push): 200N min.					
Mechanical data	terminal retention (pull & push): 100N min.					
	terminal resistance to bending					
	(front & side): 10N min. 6)					

- ured when applying 100% rated votage on coil.
- ess than 1mA
- when voltage drops suddenly from nominal oil is not paralleled with suppression circuit.
- ng time of NO contacts shall not exceed 100µs, opening time of NC contacts shall not exceed 100µs,meantime, NO contacts shall not be closed.
- -40°C to 125°C 5) FMVSS: Federal Motor Vehicle Safety Standard.
 - 6) Test point is at 2mm away from teminal end, and after removing testing force, the terminal transfiguration shall not exceed 0.5mm.
 - 7) Do NOT knock on relays with hard objects such as rubber rod and rubber hammer during mounting, which might lead to relay damage.

CONTACT DATA 4)

Ambient temperature

Storage temperature

Load voltage	Load type		Load current A		On/Off ratio		Electrical	Contact	L a a al velinina	A In i t	
			10	IC 1A		On	Off	endurance	Contact material	Load wiring diagram ³⁾	
			NO	NC	1/4	S	S	OPS	material	diagram	tomp.
Resistive Standard Inductive	Desistina	Make	35	20	35	2	2	1×10 ⁵	AgSnO₂	See	
	Resistive	Break	35	20	35					diagram 1	See
	Make ¹⁾	80		80	2	2	1×10 ⁵	A = C = O	See	Ambient	
13.5VDC		Break	30		30	2		1×10	AgSnO ₂	diagram 2	Temp. Curve
Lamp	Make	Make	150 ²⁾		150 ²⁾		2	1×10 ⁵		See	
	Break	30		30	2	2	1×10	AgSnO ₂	diagram 3		

-40°C to 155°C