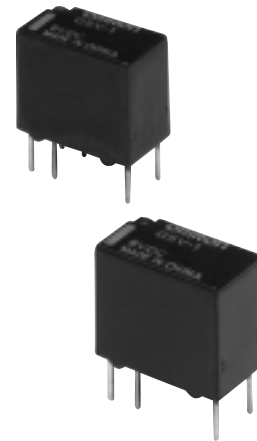


- High sensitivity: 150 mW nominal power consumption with 96 mW pickup power
- Small size at 10 H x 7.5 W x 12.5 L mm (0.394 H x 0.295 W x 0.492 L in)
- Conforms to FCC part 68 voltage surge
- Fully-sealed construction
- Ideal for use in telecommunications, security, and computer/peripheral equipment



Ordering Information

To Order: Select the part number and add the desired coil voltage rating (e.g., G5V-1-DC12).

Type	Contact form	Contact type	Construction	Part number
Standard	SPDT	Single crossbar	Fully-sealed	G5V-1
Special pickup				G5V-1-2

Specifications

CONTACT DATA

Load	Resistive load (p.f. = 1)	Inductive load (p.f. = 0.4, L/R = 7ms)
Rated load	0.50 A at 125 VAC, 1 A 24 VDC	
Contact material	Ag (Au clad)	
Carry current	2 A	
Max. operating voltage	125 VAC, 60 VDC	
Max. operating current	1 A	
Max. switching capacity	62.50 VA, 30W	
Min. permissible load	1 mA, 5 VDC	

COIL DATA

Rated voltage (VDC)	Rated current (mA)	Coil resistance (Ω)	Coil inductance (Ref. value) (H)		Pick-up voltage	Dropout voltage	Maximum voltage	Power consumption (mW)
			Armature OFF	Armature ON				
3	50	60	0.11	0.05	80% (standard)	10% min.	200% at 55°C (131°F)	Approx. 150
5	30	166.70	0.29	0.15				
6	25	240	0.41	0.20				
9	16.70	540	0.93	0.45	70% (special)	160% at 70°C (158°F)		
12	12.50	960	1.63	0.85				
24	6.30	3,840	6.61	3.48				

Note: 1. The rated current and coil resistance are measured at a coil temperature of 23°C (73°F) with a tolerance of ±10% .
 2. The operating characteristics are measured at a coil temperature of 23°C (73°F).

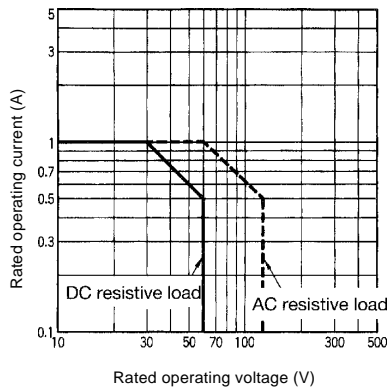
■ CHARACTERISTICS

Contact resistance		100 mΩ max.
Operate time		5 ms max. (mean value: approx. 2.50 ms)
Release time		5 ms max. (mean value: approx. 0.90 ms)
Bounce time		5 ms max. (mean value: approx. 0.17 ms)
Operating frequency	Mechanical	36,000 operations/hour
	Electrical	1,800 operations/hour
Insulation resistance		1,000 MΩ min. (at 500 VDC)
Dielectric strength		1,000 VAC, 50/60 Hz for 1 minute between coil and contacts 400 VAC, 50/60 Hz for 1 minute between contacts of same polarity
Surge withstand voltage		1,500 V 10 X 160 μs (conforms to FCC Part 68)
Vibration	Mechanical durability	10 to 55 Hz, 3.30 mm (0.13 in) double amplitude
	Malfunction durability	
Shock	Mechanical durability	1,000 m/s ² (approx. 100 G)
	Malfunction durability	100 m/s ² (approx. 10 G)
Ambient temperature		-30°C to 70°C (-22° to 158°F)
Humidity		35% to 85% RH
Service life	Mechanical	5 million operations min. (at 36,000 operations/hour)
	Electrical	See "Characteristic Data"
Weight		2.20 g (0.08 oz)

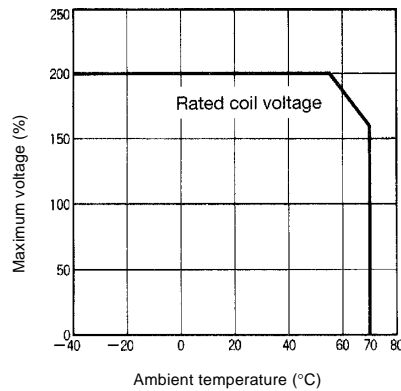
Note: Data shown are of initial value.

■ CHARACTERISTIC DATA

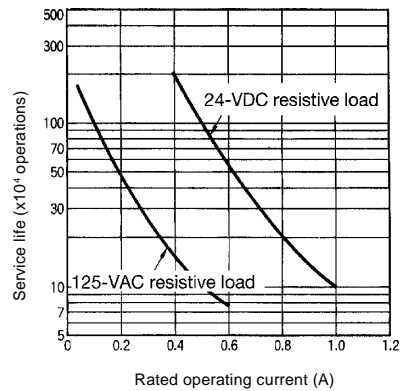
Maximum switching capacity



Ambient temperature vs. maximum voltage (reference only)



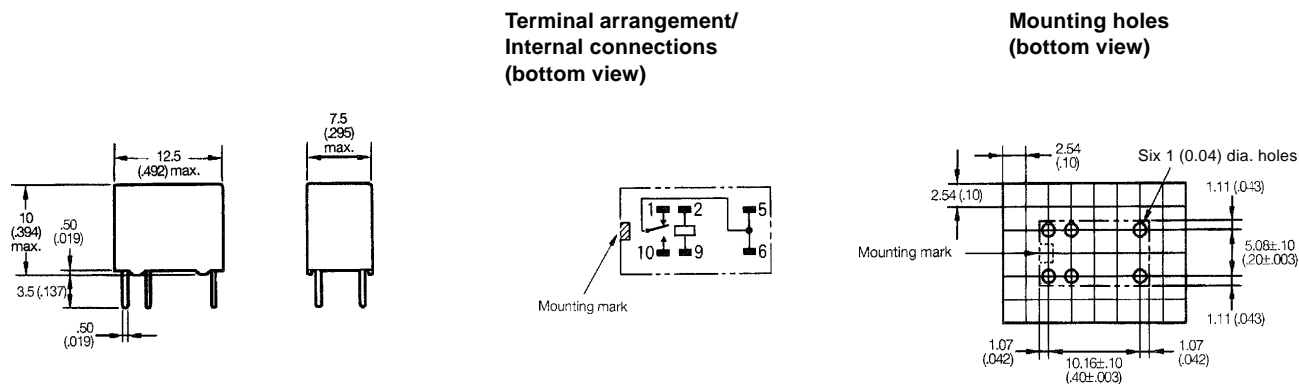
Electrical service life



Dimensions

Unit: mm (inch)

■ RELAYS



- Note: 1. and indicate mounting orientation marks.
2. A tolerance of ± 0.10 (0.004) applies to the above dimensions.

■ APPROVALS

UL (File No. E41515)/CSA (File No. LR24825)

Type	Contact form	Coil rating	Contact ratings
G5V-1	SPDT	3 to 24 VDC	0.5 A, 125 VAC
G5V-1-2			0.3 A, 60 VDC
			1.0 A, 30 VDC

Note: In the interest of product improvement, specifications are subject to change.

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