

# HA702 18KV Series

PCB Mount /  
Super High Breakdown

## PRODUCT DESCRIPTIONS



The ultra breakdown relay, HA702 18KV series, is added to Sanyu high breakdown products line. This HA702 series achieves the highest spec among this product family, 18KV breakdown voltage between contacts(max) and 12KV switching voltage(max). In order to reduce assembly cost and difficulties, this series adopts structure with the high breakdown signal cables protruding from the top of the relay's surface and underneath coil lead for relay positioning and anchoring. We continue to support the fields of electrical safety-related validation, testing, inspection, and services.

- Ultra Breakdown Voltage 18.0KV Between Contacts
- Unique Assembly Design
- Switching Voltage 12.0KV

## SPECIFICATIONS



HA702 18KV		HA702-118□□			
Parameters	Units	1 Form A			Test Conditions
<b>Coil Specifications</b>					
Nominal Coil Voltage	VDC	5.0	12.0	24.0	±10% @ 20°C @ 20°C @ 20°C
Coil Resistance	Ω	30	150	600	
Operate Voltage	VDC Max	3.75	8.8	17.6	
Release Voltage	VDC Min	0.7	1.2	2.4	
<b>Contact Ratings</b>					
Switching Voltage	Volts	12000			Max DC/Peak AC resistance
Switching Current	Amps	3.0			Max DC/Peak AC resistance
Carry Current	Amps	4.0			Max DC/Peak AC resistance(@30°C)
Contact Rating	Watts	50			Max DC/Peak AC resistance
Life Expectancy	x10 <sup>6</sup> Cycle	100			@ 1V 10mA
Contact Resistance	mΩ	200			Max initial @ operate voltage
Contact Resistance Stability	mΩ	20			Max initial @ operate voltage
<b>Relay Specifications</b>					
Insulation Resistance	Ω Min	10 <sup>10</sup>			Between contacts
	Ω Min	10 <sup>12</sup>			Contacts to coil @ 100V 20°C 65%RH
Dielectric Strength (Static)	VDC Min	18000*			Between contacts
	VDC Min	18000			Contacts to coil
Operate Time (No Bounce)	msec Max	3.0			@ nominal coil voltage 100 Hz square wave
Release Time	msec Max	1.5			Diode suppression
<b>Measurement Reference Conditions</b>			<b>Environmental Ratings</b>		
Temp: 15°C to 35°C Humidity: 25% to 75%RH Atmospheric Pressure: 860 to 1060hpa			Storage temp: -40°C to +85°C Operate temp: -20°C to +80°C Vibration: 20G's to 2000Hz Shock: 50G's		

\* Terms/Conditions of Dielectric Strength: Polarity required as pin#1(+) and pin#2(-) for 18KV dielectric strength between contacts.

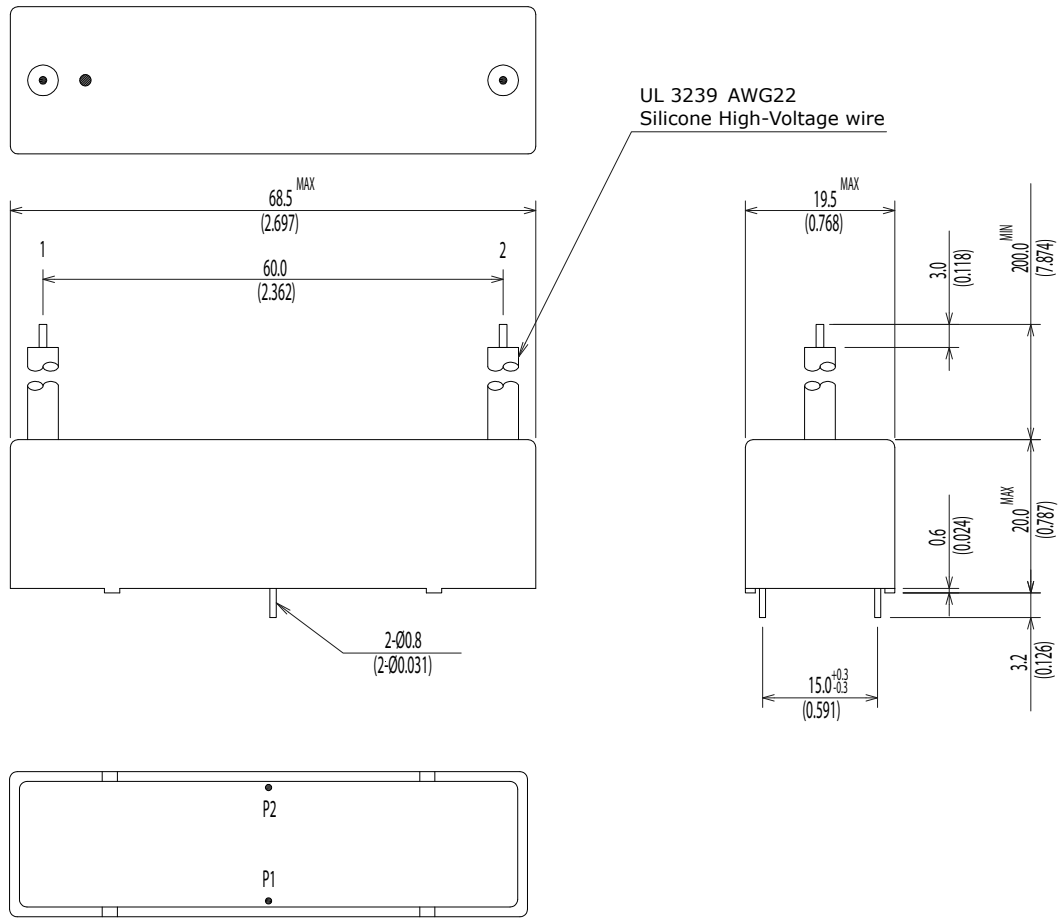
### Ordering Code:

HA702-118□□

□□=05(5.0VDC), 12(12.0VDC), 24(24.0VDC)

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**Dimensions All Dimensions are mm (inch)**



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**Schematic <Top View>**

