

# 25D Series

PCB Mount

## PRODUCT DESCRIPTIONS



The 25D Series is a small high insulation resistance relay, which comes in 1 Form A and 2 Form A configurations. The insulation resistance rated  $10^{13}$  is top of its class, and ensures to reduce mounting area. These features make this series ideal for DC measurement and DC parametric tests.



## SPECIFICATIONS

25D Series		25D-1A□1□□			25D-2A□1□□			
Parameters	Units	1 Form A			2 Form A			Test Conditions
<b>Coil Specifications</b>								
Nominal Coil Voltage	VDC	5.0	12.0	24.0	5.0	12.0	24.0	±10% @ 20°C @ 20°C @ 20°C
Coil Resistance	Ω	160	600	1800	150	600	2000	
Operate Voltage	VDC Max	3.75	8.8	17.6	3.75	8.8	17.6	
Release Voltage	VDC Min	0.7	1.2	2.4	0.7	1.2	2.4	
<b>Contact Ratings</b>								
Switching Voltage	Volts	100						Max DC/Peak AC resistance
Switching Current	Amps	0.5						Max DC/Peak AC resistance
Carry Current	Amps	1.0						Max DC/Peak AC resistance(@30°C)
Contact Rating	Watts	10						Max DC/Peak AC resistance
Life Expectancy	x10 <sup>6</sup> Cycle	1000						@ 1V 10mA
Contact Resistance	mΩ	150						Max initial @ operate voltage
Contact Resistance Stability	mΩ	5.0						Max initial @ operate voltage
<b>Relay Specifications</b>								
Insulation Resistance	Ω Min	10 <sup>11</sup> to 10 <sup>13</sup> *						Between all isolated pins (exclude shield to coil) @ 100V 20°C 65%RH
Dielectric Strength (Static)	VDC Min	200						Between contacts
	VDC Min	500						Contacts to shield
	VDC Min	500						Contacts/Shield to coil
Operate Time (Including Bounce)	msec Max	0.5						@ nominal coil voltage
Release Time	msec Max	0.5						100 Hz square wave 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				

### Ordering Code:

25D-1A□1□2□3)\*, 25D-2A□1□2□3)\*

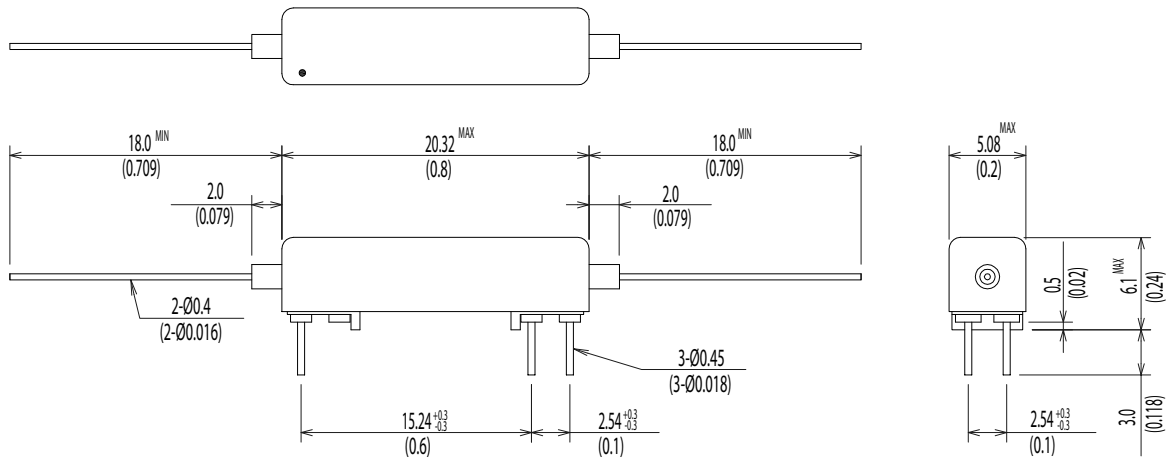
□1) = 1(5.0VDC), 2(12.0VDC), 3(24.0VDC)

□2) = N(No Diode), D(Diode)

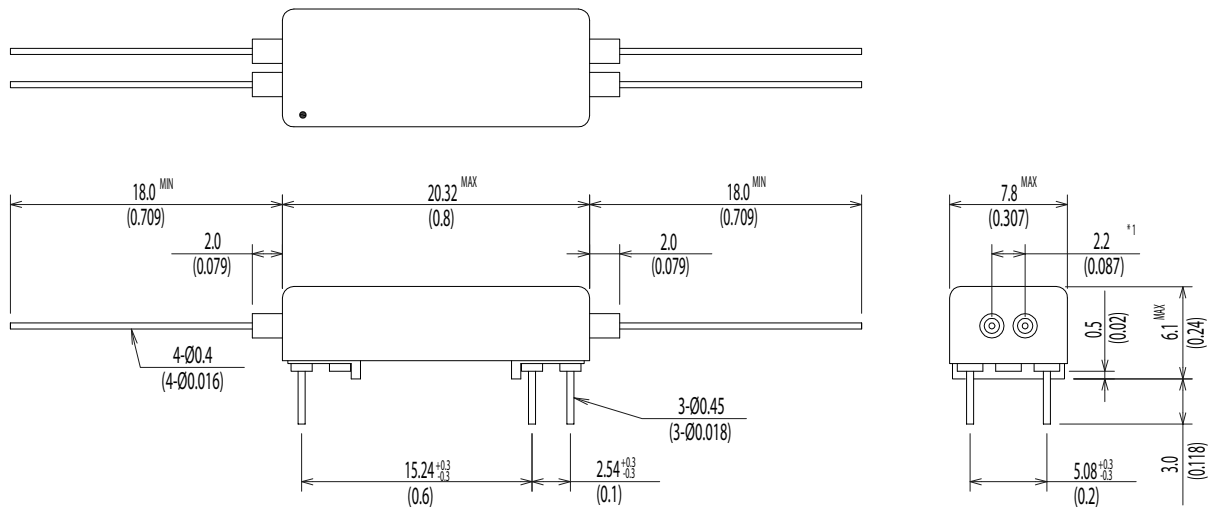
□3) = 1(Insulation Resistance 10<sup>11</sup>), 2(Insulation Resistance 10<sup>12</sup>), 3(Insulation Resistance 10<sup>13</sup>)

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

**25D-1A□1N□ / 25D-1A□1D□**



**25D-2A□1N□ / 25D-2A□1D□**



\*1 Reference Value

**Schematic <Top View>**

**25D-1A□1N□**

**25D-1A□1D□**

**25D-2A□1N□**

**25D-2A□1D□**

