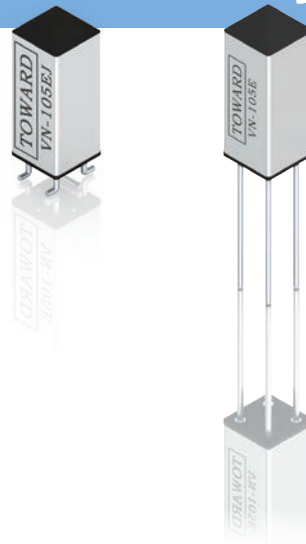


# VN Series

## Ultra-mini Size Reed Relay

### Features

- Ultra high density reed relay.
- High reliability, hermetically sealed contact for long life.
- External magnetic shield.



### Order Code

VN- 1-XX XX XX XX  
 a b c d e

- a : Contact Form : 1=1 Form A  
 b : Nominal Coil Voltage : 05=5V, 12=12V  
 c : Nil=No Electrostatic Shield, E=Electrostatic Shield  
 d : Nil=Standard Type, A-Z=Special  
 e : Nil=Standard Type, J=SMD J Model

### Coil Data-Standard Type (at 20°C)

Part Number	Nominal Voltage DC $\pm 10\%$ [V]	Coil Resistance $\pm 10\%$ (ohm)	Nominal Current (mA)	Must Release Voltage MIN. [V] at 20°C	Must Operate Voltage Max. [v] at 20°C
VN-105	5	150	33.3	0.7	3.75
VN-112	12	600	24	1.0	9.6

### Contact Specifications

Contact Form	<b>1 Form A</b>
Contact Rating	10W
Max.Switching Voltage	170VDC / 120VAC.RMS
Max.Switching Current	0.5 A
Max.Carry Current	1.0 A
Contact Resistance	150mΩ



### Electrical Specifications

Breakdown Voltage:	Open contacts	200VDC
	contact to coil	150VDC
Insulation Resistance	Open contacts	1X10 <sup>10</sup> Ω
	Contacts to coil	1X10 <sup>10</sup> Ω
Capacitance	Open contacts	0.4pF
Operate Time		0.3mS
Release Time		0.3mS

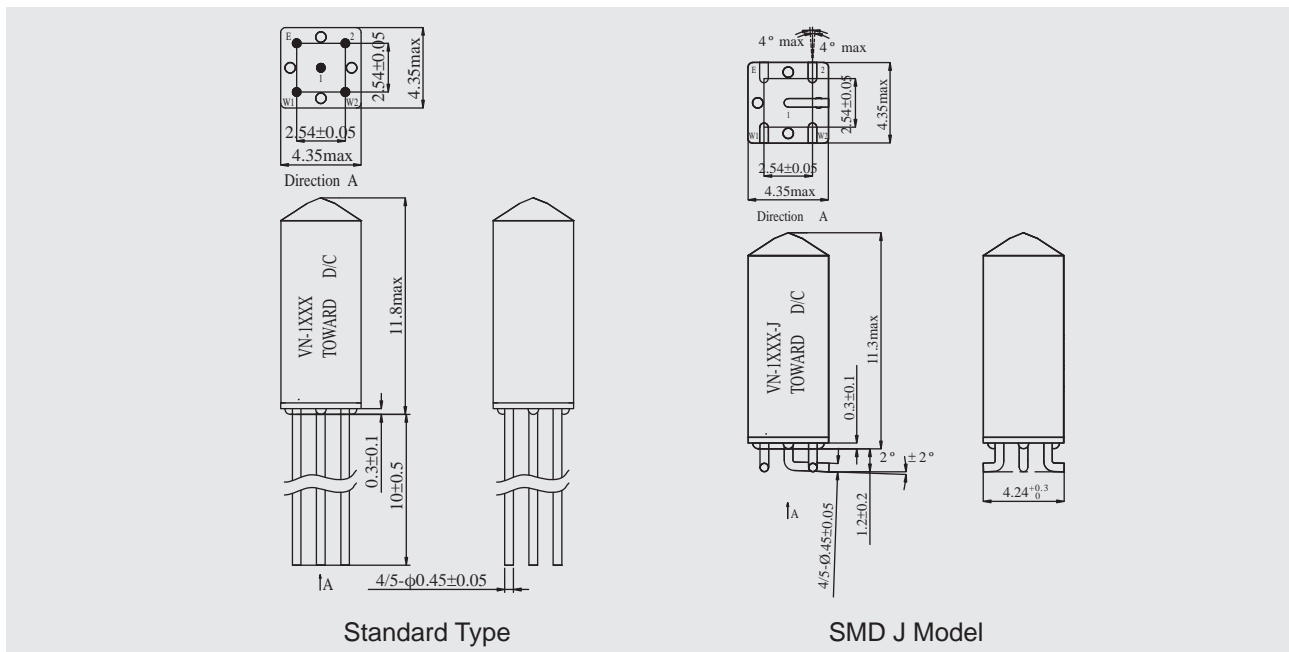
### Mechanical Specifications

Vibration(10 to 2KHz 1.5mm )	20G
Shock(11mS 1/2 Sin Wave)	50G

### Environmental

Operating Temperature	-20°C ~ +60°C
Storage Temperature	-20°C ~ +85°C
Life Expectancy of Mechanical	1x10 <sup>9</sup>
Life Expectancy of Electrical (1.0VDC 10mA)	3x10 <sup>8</sup>

### Dimensions (Unit : mm)



### Wiring Diagrams (Top View)

