

# 954 Series Relay

## FEATURES

- UL safety approval.
- Smaller size at 16A switching capacity relay for high density.
- Surge strength:4500 VAC.
- 1 Form A (SPST-NO) contact.
- Nominal power 800mW.
- Operating power 450mW.
- PCB mounting technique.
- Selection of case material for high temperature and better chemical solution performance.



UL FILE NO: E169563

## CONTACT RATINGS

- Contact Arrangement.....1 Form A (SPST-NO)
- Max. Switching Power.....4000VA 480W
- Max. Switching voltage .....250VAC 30VDC
- Max. Switching current.....16A
- Contact Resistance..... $\leq 50m\Omega$
- Rating Load.....16A/250VAC 20A/125VAC 20A/24VDC
- Contact Material .....Ag Alloy

## CHARACTERISTICS

- Electrical Life..... $1 \times 10^5$
- Mechanical Life..... $5 \times 10^6$
- Initial Insulation Resistance.....Min. 100M $\Omega$  500VDC
- Contact Resistance (Initial)..... $\leq 50m\Omega$
- Operate Time..... $\leq 20ms$
- Release Time..... $\leq 10ms$
- Initial Dielectric Strength
  - .....50/60Hz 1500VAC 1 min. (between open contacts)
  - .....50/60Hz 4000VAC 1 min. (between contacts and coil)
- Vibration Resistance
  - .....Malfunction: 10 to 55Hz at Double Amplitude of 1.5mm
  - .....Destructive: 10 to 55Hz at Double Amplitude of 1.5mm
- Shock Resistance
  - .....Malfunction: 10G (11ms) / Destructive: 100G(6ms)
- Ambient Temperature ..... $-25^{\circ}C \sim +70^{\circ}C$
- Relative Humidity.....85% at  $40^{\circ}C$
- Unit Weight .....Approx. 17g

## ORDERING INFORMATION

954 - 1A - 12 D MP - 1  
 1 2 3 4 5 6

Type Of Install.....1 = Install Style One

.....2 = Install Style Two

.....3 = Install Style Three

.....4 = Install Style Four

Terminal Type.....MP = Double Connect Type

Coil Type.....D: DC

Coil Voltage.....3~60V

Contact Arrangement.....1A = 1 Form A (SPST-NO)

Model Number.....954

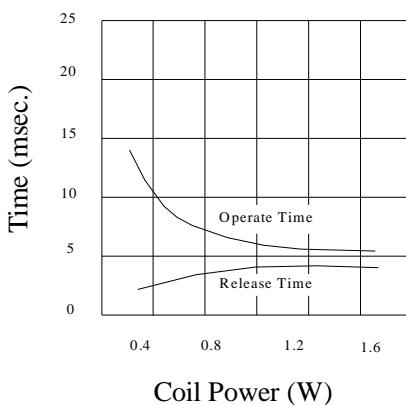
## COIL RATINGS (at 20°C)

COIL TYPE	Coil Nominal Voltage (V)	Coil Resistance ( $\Omega \pm 10\%$ )	Pick-Up Voltage (V) $\leq$	Drop-Out Voltage (V) $\geq$	Nominal Current (mA)
DC Standard Coils	3	11	2.25	0.3	273
	5	31	3.75	0.5	161
	6	45	4.5	0.6	133
	9	101	6.75	0.9	89
	12	180	9	1.2	66.7
	18	405	13.5	1.8	44.4
	24	720	18	2.4	33.3
	48	2880	36	4.8	16.7
	60	4500	45	6	13.3

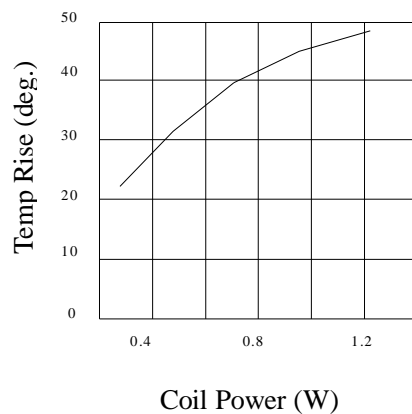
\* Max Continuous Voltage at 20°C: 110% of Coil Nominal Voltage.

## Referential Data

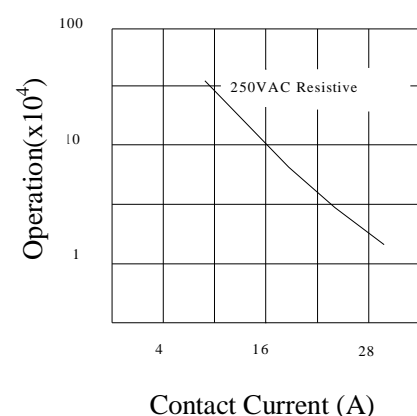
### Timing



### Coil Temperature Rise



### Life Curves



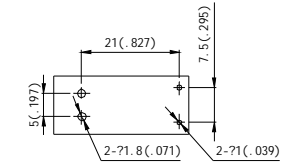
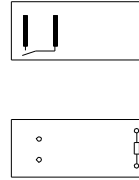
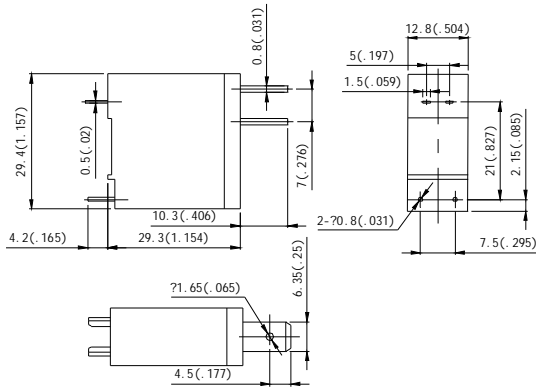
# OUTLINE DIMENSIONS

## Dimensions

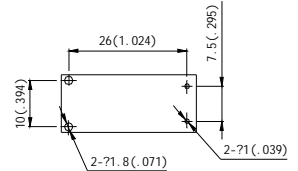
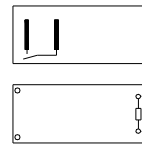
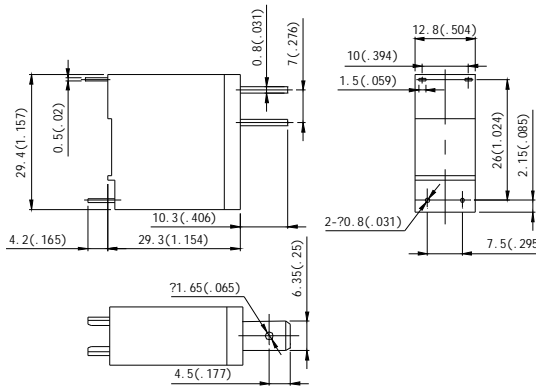
## Internal Connections (Bottom View)

## Drilling Plan (Bottom View)

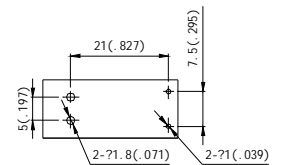
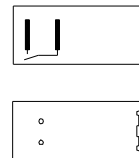
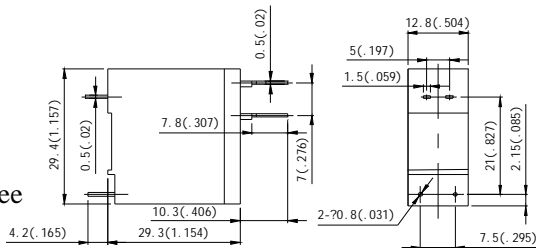
Install Style One



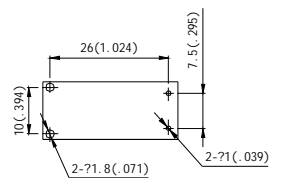
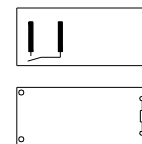
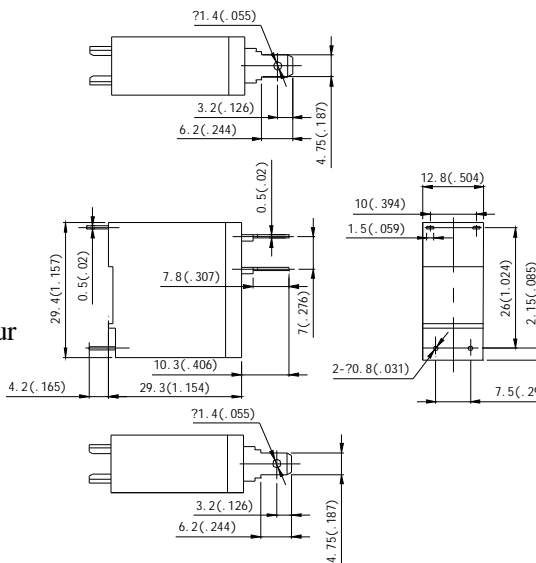
Install Style Two



Install Style Three



Install Style Four



REMARK: Tolerance of outline dimensions:  $\pm 0.2(0.008)$ .

UNIT: mm(inch)