

# Automotive Relay TRV4



## ORDERING CODE

**TRV4 L 12V(D1) Z F P**

① ② ③ ④ ⑤ ⑥ ⑦

- ① Relay Model
- ② Coil Nominal D=1.9W, L=1.6W
- ③ Coil Nominal Voltage 3, 5, 6, 12, 24VDC

- ④ Blank : Standard  
R1 : Coil parallel with 1/2W resistor 680 $\Omega$  for  
Coil voltage 12VDC; 2700 $\Omega$  for coil voltage 24VDC  
D1 : Coil parallel with diode IN4007 the positive  
pole "+" on #85 terminal  
D2 : Coil parallel with diode IN4007 the positive  
pole "-" on #85 terminal
- ⑤ Z : Form C, H : Form A, D : Form B
- ⑥ WITH BRACKET None : WITHOUT BRACKET
- ⑦ P : PCB Type None : B Type

## COIL DATA

Nominal Voltage(VDC)	3	5	6	12	24	Coil Power
Coil Resistance( $\Omega$ )	6	16	23	90	360	1.6W
Rated Current(mA)	533	320	267	133	67	
Max Operate Voltage(VDC)	1.95	3.25	3.9	7.8	15.6	
Min Release Voltage(VDC)	0.3	0.5	0.6	1.2	2.4	
Coil Resistance( $\Omega$ )	5	13	19	76	300	
Rated Current(mA)	633	380	317	158	79	
Max Operate Voltage(VDC)	1.95	3.25	3.9	7.8	15.6	
Min Release Voltage(VDC)	0.3	0.5	0.6	1.2	2.4	
Max Applicable Voltage	70 $^{\circ}$ C, 130%, 23 $^{\circ}$ C, 170%					

## CONTACT DATA

Contact Form	1H/1Z
Contact Material	Silver Alloy
Load	Resistive load(COS $\phi$ 1)
Contact Ratings	NO: 40A 14VDC NC: 30A 14VDC
Max Switching Voltage	30VDC
Max Switching Current	40A
Max Switching Power	560W
Contact Resistance	100m $\Omega$ Max at 6VDC 1A
Life Expectancy	Electrical : 100,000 Operations(at30 Operations/minute) Mechanical : 10,000,000 Operations

## GENERAL DATA

Insulation Resistance		100M $\Omega$ Min at 500VDC
Dielectric Strength Between Open Contacts		500VAC(for one minute)
Between Contacts and coil		750VAC(for one minute)
Operate Time		10ms
Release Time		10ms
Temperature Range		-40 $^{\circ}$ Cto+70 $^{\circ}$ C
Shock Resistance	Operating Extremes	20G
	Damage Limits	100G
Vibration Resistance		10-55Hz, 1.5mm
Max. switching frequency	Mechanical	18,000operations/hr
	Electrical	1,800operations/hr
Humidity		40-85%
Weight		Approx 40g

## OVERALL AND MOUNTING DIMENSIONS

