



Main Feature

1. Slim type one make Relay with size 10.5x24.5x24.8 mm. Contact Capacity of 10A is available to comply with wide application.
2. Insulation distance 6mm is designed for Surge Resistance 7000V.
3. Double Insulation construction for high reliability.
4. The employment of suitable plastic material to be applied for high temperature and various chemical solutions.
5. Complete protective construction is designed from dust and solder flux. If required, the plastic sealed type is available for washing procedure.
6. TV-5 at 120VAC is certified by UL.

Application

Industrial Control Units, Air Conditioners and Consumer Equipment use, etc.

Contact Rating

- Nominal Load (Resistive Load $\cos \varphi = 1$)
Contact Capacity10A at 120VAC.
10A at 30VDC.
TV-5 at 120VAC.
5A at 250VAC.
- Rated Carrying Current10A.
- Max. Allowable Current10A.
- Max. Allowable VoltageAC 250V, DC 110V.
- Max. Allowable Power Force.1800 VA, 210W.
- Min. Switching LoadDC 10V, 10mA.
- Contact MaterialAg Alloy.
- Contact Form.....SPST.

Performance (at Initial Value)

- Contact Resistance100m Ω Max.@1A,6VDC
- Operate Time15 mSec. Max.
- Release Time8 mSec. Max.
- Dielectric Strength :
Between Coil & Contact4,000VAC at 50/60 Hz
for one minute.
- Between Contacts900VAC at 50/60 Hz
for one minute.
- Surge Resistance7,000 V(between Coil
& Contact 1.2x50 μ Sec.)
- Insulation Resistance.....100 Mega Ω Min. at
500VDC.
- Max. On/Off Switching :
Electrical30 Ops. per Minute.
- Mechanical300 Ops. per Minute.

- Temperature Range-30~55°C
- Humidity Range.....45~85% RH.
- Coil Temperature Rise.....40°C Max.
- Vibration :
Endurance10 to 55 Hz dual
amplitude width 1.5mm.
- Error Operation10 to 55 Hz dual
amplitude width 1.5mm.
- Shock :
Endurance1,000 m/S² Min.
- Error Operation100 m/S² Min.
- Life Expectancy :
Mechanical10⁷ Operations at No
Load condition.
- Electrical10⁵ Operations at Rated
Resistive Load.
2.5x10⁴ Operations at
TV Rated Load.
- Weight.....About 13.8 g.

Safety Standard & Its File Number

SMIT - DM/LM

- UL.....E141060
- CSA.....LR76598(DM only)
- TÜVR9854437

SMIT - DMR/LMR

- C-UL.....E141060
- TÜVR9854437
- CSA.....LR76598(DMR only)

Coil Specification (at 20°C)

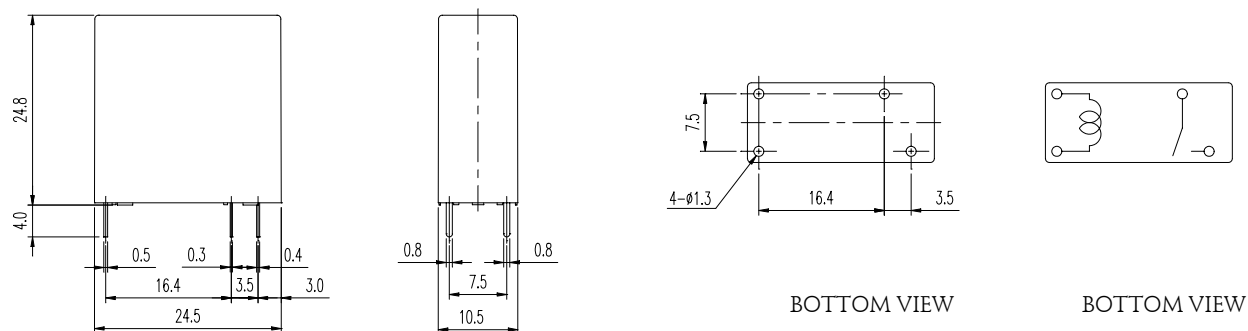
Coil Sensitivity	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance ($\Omega \pm 10\%$)	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Maximum Allowable Voltage (VDC)
SMIT-DM/R	3	176.5	17	Abt. 0.54	80% Maximum	5% Minimum	120%
	5	106.4	47				
	6	88	68				
	9	58	155				
	12	44.4	270				
	24	21.8	1,100				
	48	11	4,400				
SMIT-LMR	3	83	36	Abt. 0.25	80% Maximum	5% Minimum	120%
	5	50	100				
	6	42	144				
	9	28	325				
	12	21	580				
	24	10.4	2300				

Ordering Information:

SMIT	-	SS	-	1	12	D	M	R
Type of Sealing	Number of Pole	Coil Voltage	Coil Type	Contact Form	Contact Rating			
SS - Flow Solder Type SH - Plastic Sealed Type	1 - One Pole	3V, 5V, 6V, 9V, 12V, 24V, 48V	D - Standard DC Coil L - High Sensitivity	M - One Form A	Nil- 10A/120VAC R- 5A/250VAC			

Dimension:

SMIT-SS/SH



Reference Data:

