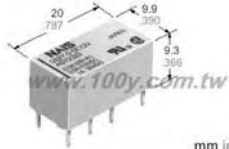


Relays & Solenoids

Matsushita_PCB Relays

Detailed product specifications are available on: us.100y.com.tw



FEATURES

- 2 Form C contact
- High sensitivity-200 mW nominal operating power
- High breakdown voltage
- DIP-2C type matching 16 pin IC socket
- Sealed construction

SPECIFICATIONS

Contact

Initial contact resistance, max.
(By voltage drop 6 V DC 1 A): 50 mΩ
Contact material: Gold-clad sliver

Rating (resistive)

Max. switching power: 60 W, 62.5 VA
Max. switching voltage: 220 V DC, 250 V AC
Max. switching current: 2 A
Max. carrying current: 3 A
Expected life (min. Operations)
Mechanical: 1×10^8
Electrical: 1 A 30 V DC: 5×10^5
2 A 30 V DC: 1×10^5

Characteristics (at 20 ° C 68 ° F)

Initial insulation resistance*¹: Min. 100 M Ω (at 500 V DC)
Initial breakdown voltage*²:
Between open contacts: 750 Vrms
Between contact sets: 1,000 Vrms
Between contact and coil: 1,000 Vrms
FCC surge voltage between contacts and coil: 1,500 V
Operate time*³ (at nominal voltage): Approx. 4 ms
Release time*³ (at nominal voltage): Approx. 3 ms
Set time*³ (latching) (at nominal voltage): Approx. 3 ms
Reset time*³ (latching) (at nominal voltage): Approx. 3 ms

Coil (polarized) (at 20 ° C 68 ° F)

Single side stable
Minimum operating power: Approx. 98 mW (147 mW: 48 V)
Nominal operating power: Approx. 200 mW (300 mW: 48 V)
2 coil latching
Minimum set and reset power: Approx. 88 mW (177 mW: 48 V)
Nominal set and reset power: Approx. 180 mW (360 mW: 48 V)

Temperature rise: Max. 65 ° C with nominal voltage across coil and at nominal switching capacity
Unit weight: Approx. 4 g .14 oz

Shock resistance:

Functional*⁴: Min. 490 m/s² {50 G}
Destructive*⁵: Min. 980 m/s² {100 G}

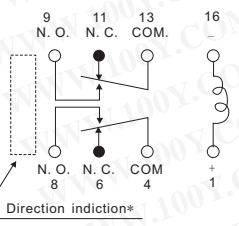
Vibration resistance:

Functional*⁶: 10 to 55 Hz at double amplitude of 3.3 mm
Destructive: 10 to 55 Hz at double amplitude of 5 mm

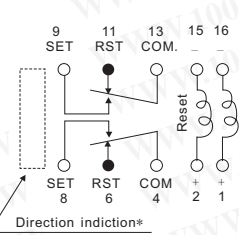
Conditions for operation, transport and storage*⁷ (Not freezing and condens-ing at low temperature)

Ambient temp.: -40 ° C to +70 ° C -40 ° F to +158 ° F
Humidity: 5 to 85% R.H.

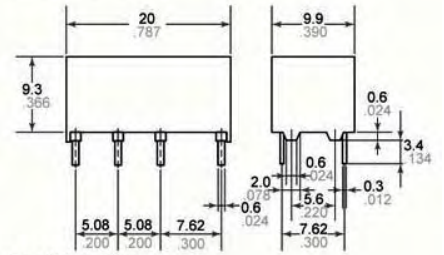
Schematic (Bottom view) (Deenergized position)



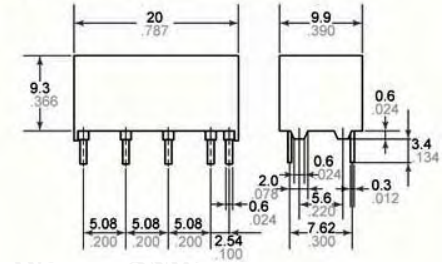
Schematic (Bottom view) (Reset position)



Single side stable



2 coil latching



| Part No. | Product No. | Manufacturer | Description | Outline L*W*H | Contact Arrangeme nt | Contact Rating | Coil Voltage | Type |
|----------|-------------|--------------|-----------------|---------------|----------------------|----------------|--------------|------|
| 22581 | DS2Y-S-DC3V | MATSUSHITA | MINIATURE RELAY | 20*9.9*9.3 | 2 Form C | 0.3~2.10 | 45ohm | DS2Y |



FEATURES

- Miniature size with universal terminal footprint
- High contact capacity: 10 A
- TV-5 type available (Standard type)
1 Form A type → TV-5
1 Form C type → TV-5 (N.O. side only)
- VDE, TÜV also approved
- Sealed construction for automatic cleaning (Standard type)
- Class B and F coil insulation type also available.
- EN60335-1 GWT compliant (Tested by VDE) type available
- Surge voltage 6 kV type also available



SPECIFICATIONS

Contact

Initial contact resistance, max. (By voltage drop 6 V DC 1 A): 100 mΩ
Contact material: AgSnO₂ type
Rating (resistive load)

Nominal switching capacity: 10 A 250 V AC 10 A 125 V AC 6 A 277 V AC
Max. switching power: 2,500 VA
Max. switching current: 10 A (AC), 5 A (DC)
Min. switching capacity^{#1}: 100 mA, 5 V DC

Expected life (min. Ope.)

Mechanical (at 180 cpm): 10⁷
Electrical at 10 A 125 V AC, 6 A 277 V AC resistive (standard) 10 A 277 V AC resistive (High power): 1×10^5
10 A 250 V AC resistive (Standard: at 20 cpm) (High power: at 20 cpm, 105 ° C 221 ° F)**: 5×10^4 (No contact only)

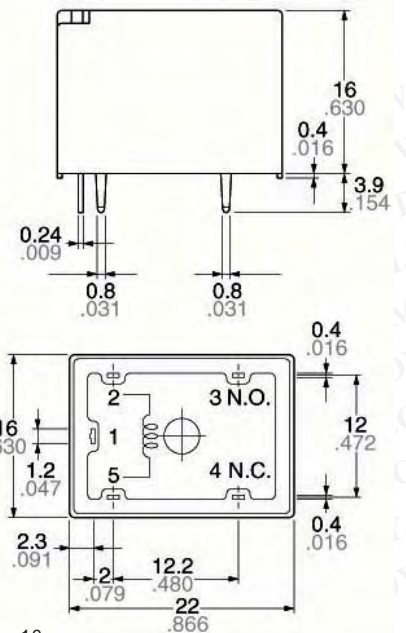
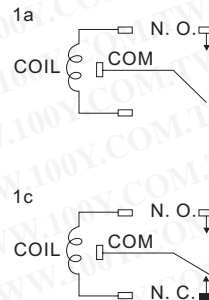
Coil

Nominal operating power: 360 mW

Characteristics

Initial insulation resistance: Min. 100 M Ω (at 500 V DC)
Initial breakdown voltage*¹
Between open contacts: 750 Vrms for 1 min.
Between contacts and coil: 1,500 Vrms for 1 min.
Operate time*² (at nominal voltage): Max. 10 ms
Release time (without diode)*² (at nominal voltage): Max. 10 ms
Temperature rise (at nominal voltage): Max. 35 ° C, resistive, nominal voltage applied to coil.
Contact carrying current: 10A, at 70 ° C 158 ° F

Schematic (Bottom view)



| Part No. | Product No. | Manufacturer | Description | Outline L*W*H | Contact Arrangeme nt | Contact Rating | Coil Voltage | Recognized Safety | Type |
|----------|-------------|--------------|---------------------------|---------------|----------------------|----------------|--------------|-------------------|------|
| 44987 | JS1-12V-F | MATSUSHITA | Miniature PCB Power Relay | 22*16*16 | 1 Form C | 10A/125V | 12VDC | TUV,VDE,CSA,UL | JS |

