## Features

- High sensitivity
- Super light weight
- Switching current up to 12 A
- PC board mounting


## Contact Data

| Contact Arrangement | $1 \mathrm{~A}=$ SPST N.O. |
| :--- | :--- |
| Contact Rating | $10 \mathrm{~A} @ 277 \mathrm{VAC}$, General Purpose, 100k cycles |
|  | 10 A @ 30VDC, General Purpose, 100k cycles |
|  | $12 \mathrm{~A} @ 125 \mathrm{VAC}$, Resistive, 100k cycles |


| Contact Resistance | $<50$ milliohms initial |
| :--- | :--- |
| Contact Material | AgSnO |
| Maximum Switching Power | 300 W |
| Maximum Switching Voltage | $300 \mathrm{VAC}, 100 \mathrm{VDC}$ |
| Maximum Switching Current | 12 A |

## Coil Data

| Coil Voltage <br> VDC |  | Coil <br> Resistance <br> $\Omega+/-10 \%$ | Pick Up Voltage <br> VDC (max) | Release Voltage <br> VDC (min) <br> $75 \%$ of rated <br> voltage <br> $10 \%$ of rated <br> voltage | Coil Power <br> W | Operate Time <br> ms | Release Time <br> ms |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rated | Max |  |  |  |  |  |  |
| 12 | 15.6 | 320 | 9.00 | 1.2 | .45 | 8 | 5 |

## General Data

| Electrical Life @ rated load | 100 K cycles, typical |
| :--- | :--- |
| Mechanical Life | 10 M cycles, typical |
| Insulation Resistance | $100 \mathrm{M} \Omega$ min. @ 500 VDC |
| Dielectric Strength, Coil to Contact |  |
| Contact to Contact |  | | 2500 V rms min. @ sea level |
| :--- |
| $1000 \mathrm{~V} \mathrm{rms} \mathrm{min} @ sea level$. |$|$| Shock Resistance | $100 \mathrm{~m} / \mathrm{s}^{2}$ for 11 ms |
| :--- | :--- |
| Vibration Resistance | 1.50 mm double amplitude $10 \sim 40 \mathrm{~Hz}$ |
| Terminal (Copper Alloy) Strength | 5 N |
| Operating Temperature | $-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$ |
| Storage Temperature | $-40^{\circ} \mathrm{C}$ to $+155^{\circ} \mathrm{C}$ |
| Solderability | $260^{\circ} \mathrm{C}$ for 5 s |
| Weight | 7 g |

## Caution

1. The use of any coil voltage less than the rated coil voltage may compromise the operation of the relay.

## Ordering Information

| 1. Series | J099 | 1A | S | 12VDC |
| :--- | :--- | :--- | :--- | :--- |
| J099 |  |  |  |  |
| 2. Contact Arrangement |  |  |  |  |
| 1A = SPST N.O. |  |  |  |  |
| 3. Sealing Options |  |  |  |  |
| S $=$ Sealed |  |  |  |  |
| 4. Coil Voltage |  |  |  |  |
| 12VDC |  |  |  |  |
| 5. Coil Power |  |  |  |  |
| $.45=.45 \mathrm{~W}$ |  |  |  |  |

## Dimensions

## Units $=\mathrm{mm}$



## Schematics \& PC Layouts

## Bottom Views



