

AXICOM
Telecom-, Signal and RF Relays

## P1 V23026 Relay

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## P1 V23026 Relay

1 pole telecom / signal relay, polarized,
Through Hole Type (THT) or
Surface Mount Technology (SMT),

Relay types: non-latching with 1 coil
latching with 2 coils
latching with 1 coil

ROHS compliant (Directive 2002/95/EC) as per product date code 0429.

## Features

- Directly triggerable with TTL standard modules such as ALS, HCT and ACT
- Slim line $13.5 \times 7.85 \mathrm{~mm}, 0.531 \times 0.309$ inch
- Switching current 1 A
- 1 changeover contact ( 1 form C / SPDT)
- Bifurcated contacts
- Immersion cleanable
- High sensitivity results in low nominal power consumption

65 to 130 mW for non-latching 30 to 150 mW for latching

- Surge voltage resistance between contact and coil:
- $\quad 2.5 \mathrm{kV}(2 / 10 \mu \mathrm{~s})$ meets the Bellcore

Requirement GR-1089

- $\quad 1.5 \mathrm{kV}(10 / 160 \mu \mathrm{~s})$ meets FCC Part 68


## Typical applications

- Automotive equipment

CAN bus, imobilizer

- Office equipment
- Measurement and control equipment
- Medical equipment
- Safety equipment


## Options

- FCC version on request. Testing of open contacts with surge voltage in accordance with FCC 68.302 ( $1.5 \mathrm{kV}, 10 / 160 \mu \mathrm{~s}$ )



## Insulation category

Basic insulation coil/contacts according to IEC/EN 60950

| Clearance | $>0.75 \mathrm{~mm}$ |
| :--- | :--- |
| Creepage distance | $>0.75 \mathrm{~mm}$ |

## P1 V23026 Relay

| V23026-x1xxx-B201 |  |  |  |
| :---: | :---: | :---: | :---: |
| THT |  |  |  |
| L | $13.00 \pm 0.10$ | $0.512 \pm 0.004$ |  |
| W | $7.60 \pm 0.10$ | $0.299 \pm 0.004$ |  |
| H | $6.90-0.20$ | $0.272-0.008$ |  |
| T | $3.50-0.20$ | $0.138-0.008$ |  |
| T1 | N/A | N/A |  |
| T2 | $5.08 \pm 0.15$ | $0.200 \pm 0.006$ |  |
| S | $0.30 \pm 0.10$ | $0.012 \pm 0.004$ |  |
| S1 | N/A | N/A |  |
| S2 | N/A | N/A |  |


| V23026-x1xxx-B201 |  |
| :---: | :---: |
| mm | inch |
| $13.40 \pm 0.10$ | $0.528 \pm 0.004$ |
| $7.75 \pm 0.10$ | $0.305 \pm 0.004$ |
| $8.00-0.20$ | $0.315-0.008$ |
| $\mathrm{~N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ |
| $10.90-0.50$ | $0.429-0.020$ |
| $5.08 \pm 0.15$ | $0.200 \pm 0.006$ |
| $\mathrm{~N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ |
| $0.85 \pm 0.10$ | $0.033 \pm 0.004$ |
| $0.20-0.15$ | $0.008-0.006$ |

## THT Version



## Mounting hole layout

View onto the component side of the PCB (top view)


SMT Version


## Solder pad layout

View onto the component side of the PCB (top view)


## Terminal assignment

Relay - top view
Contact release or reset condition, coil polarity to set the relay

| Non-latching type | Latching type, 1 coil | Latching type, 2 coils |
| :---: | :---: | :---: |
| not energized condition | reset condition | reset condition |
|  |  |  |

Contacts are shown in reset condition. Both coils can be used either as set or reset coil.

## P1 V23026 Relay

## Coil Operating Range



| $U_{\text {nom }}=$ | Nominal coil voltage |
| ---: | :--- |
| $U_{\text {max. }}=$ | Upper limit of the operative range of <br> the coil voltage (limiting voltage) <br>  <br> when coils are continously energized |
| $\mathrm{U}_{\text {op. min. }}=$ | Lower limit of the operative range of <br>  <br> the coil voltage (reliable operate <br> voltage) |
| $\mathrm{U}_{\text {rel. min. }}=$Lower limit of the operative range of <br>  <br> the coil voltage (reliable release <br> voltage $)$ |  |



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## P1 V23026 Relay

## Coil Data (values at $23^{\circ} \mathrm{C}$ )

Ordering Information

| Nominal <br> voltage <br> $U_{\text {nom }}$ | Operate/set voltage range <br> Vinimum |  | Release/ <br> reset voltage <br> Minimum | Coil <br> power | Coil <br> Resistance <br> voltage $U_{\text {min }}$ <br> voltage $U_{\max }$ | Relay <br> code | Tyco part <br> number |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Vdc | Vdc | Vdc | mW | $\Omega / \pm 10 \%$ |  |  |  |

THT, non-latching, 1 coil

| 3 | 2.25 | 8.80 | 0.30 | 66 | 137 | V23026A1006B201 | $1-1393774-7$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | ---: |
| 5 | 3.75 | 14.50 | 0.50 | 68 | 370 | V23026A1001B201 | $1393774-1$ |
| 9 | 6.75 | 25.50 | 0.90 | 70 | 1165 | V23026A1005B201 | $1-1393774-5$ |
| 12 | 9.00 | 35.00 | 1.20 | 64 | 2250 | V23026A1002B201 | $1393774-8$ |
| 24 | 18.00 | 50.00 | 2.40 | 128 | 4500 | V23026A1004B201 | $1-1393774-2$ |

THT, latching, 2 coils (coils I and II are identical)

| 3 | 2.25 | 8.55 | 2.25 | 69 | 130 | V23026B1106B201 | 1393775-3 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5 | 3.75 | 14.75 | 3.75 | 64 | 390 | V23026B1101B201 | 3-1393774-4 |
| 9 | 6.75 | 26.00 | 6.75 | 68 | 1200 | V23026B1105B201 | 1393775-2 |
| 12 | 9.00 | 29.00 | 9.00 | 96 | 1500 | V23026B1102B201 | 3-1393774-5 |
| 24 | A nominal voltage of 24 V is feasible with a 12 V coil with a series resistor (1500 $\Omega$ ) |  |  |  |  |  |  |

THT, latching, 1 coil

| 3 | 2.25 | 13.00 | -2.25 | 30 | 300 | V23026C1056B201 | $2-1393774-6$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5 | 3.75 | 20.00 | -3.75 | 34 | 740 | V23026C1051B201 | $2-1393774-0$ |
| 9 | 6.75 | 35.00 | -6.75 | 38 | 2160 | V23026C1057B201 | $2-1393774-7$ |
| 12 | 9.00 | 50.00 | -9.00 | 32 | 4500 | V23026C1052B201 | $2-1393774-1$ |
| 24 | 18.00 | 50.00 | -18.00 | 128 | 4500 | V23026C1054B201 | $2-1393774-4$ |

SMT, non-latching, 1 coil

| 3 | 2.25 | 8.00 | 0.30 | 80 | 113 | V23026D1026B201 | $1393776-8$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5 | 3.75 | 13.30 | 0.50 | 80 | 313 | V23026D1021B201 | $1393776-3$ |
| 9 | 6.75 | 24.00 | 0.90 | 80 | 1015 | V23026D1025B201 | $1422015-9$ |
| 12 | 9.00 | 35.00 | 1.20 | 80 | 1800 | V23026D1022B201 | $1393776-4$ |
| 24 | 18.00 | 50.00 | 2.40 | 128 | 4500 | V23026D1024B201 | $1393776-7$ |

SMT, latching, 2 coils (coils I and II are identical)

| 3 | 2.25 | 8.55 | 2.25 | 69 | 130 | V23026E1106B201 | $1393777-3$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5 | 3.75 | 14.75 | 3.75 | 64 | 390 | V23026E1101B201 | $1422015-6$ |
| 9 | 6.75 | 26.00 | 6.75 | 68 | 1200 | V23026E1105B201 | $1393777-2$ |
| 12 | 9.00 | 29.00 | 9.00 | 96 | 1500 | V23026E1102B201 | $1393776-9$ |
| 24 | A nominal voltage of 24 V is feasible with a 12 V coil with a series resistor $(1500 \Omega)$ |  |  |  |  |  |  |

SMT, latching, 1 coil

| 9 | 3.75 | 20.00 | -3.75 | 34 | 740 | V23026F1051B201 | $1422015-8$ |
| :---: | ---: | :---: | :---: | :---: | :---: | :---: | ---: |
| 12 | 9.00 | 50.00 | -9.00 | 32 | 4500 | V23026F1052B201 | $4-1393774-3$ |
| 24 | A nominal voltage of 24 V is feasible with a 12 V coil with a series resistor (4500 $\Omega$ ) |  |  |  |  |  |  |

Further coil versions e.g. $1.5 \mathrm{~V}, 9 \mathrm{~V}$ and 15 V are available on request.

## P1 V23026 Relay

## Contact Data

| Number of contacts and type | 1 changeover contact |
| :--- | :---: |
| Contact assembly | Bifurcated contact |
| Contact material | Palladium nickel, gold-rhodium covered |
| Limiting continuous current at max. ambient temperature | 1 A |
| Maximum switching current | 1 A |
| Maximum swichting voltage | 125 Vdc |
|  | 150 Vac |
| Maximum switching capacity | $30 \mathrm{~W}, 60 \mathrm{VA}$ |
| Thermoelectric potential | $<100 \mu \mathrm{~V}$ |
| Initial contact resistance / measuring condition: $10 \mathrm{~mA} / 20 \mathrm{mV}$ | $<50 \mathrm{~m} \Omega$ |
| Electrical enduranceat $12 \mathrm{~V} / 10 \mathrm{~mA}$ <br> at $6 \mathrm{~V} / 100 \mathrm{~mA}$ <br> at $30 \mathrm{~V} / 1000 \mathrm{~mA}$ | typ. $5 \times 107$ operations <br> typ. <br> typ. $1 \times 107$ operations |
| Mechanical endurance |  |
| UL contact ratings | typ. $10^{9}$ operations |

## Max. DC Load Breaking Capacity



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## P1 V23026 Relay

## Insulation

| Insulation resistance at 500 Vdc | $>109 \Omega$ |
| :--- | :---: |
| Dielectric test voltage (1 min) <br> between coil and contacts (Relay with 1 coil) <br> between open contacts | 1500 Vrms |
| Surge voltage resistance <br> according to BellcoreTR-NWT-001089 (2 / 10 $\mu \mathrm{s})$ <br> between coil and contacts (Relay with 1 coil) <br> between open contacts <br> according to FCC $68(10 / 160 ~ \mu s)$ <br> between coil and contacts (Relay with 1 coil) <br> between open contacts | 500 Vrms |
| Insulation according to IEC / EN 60950 <br> Clearance <br> Creepage distance | on request 2000 V |

## High Frequency Data

| Capacitance between coil and contacts between open contacts | $\begin{aligned} & \max .6 \mathrm{pF} \\ & \max .5 \mathrm{pF} \end{aligned}$ |
| :---: | :---: |
| RF Characteristics <br> Isolation at $100 / 900 \mathrm{MHz}$ <br> Insertion loss at $100 / 900 \mathrm{MHz}$ <br> V.S.W.R. at $100 / 900 \mathrm{MHz}$ | $\begin{gathered} -30.0 \mathrm{~dB} /-18.0 \mathrm{~dB} \\ -0.12 \mathrm{~dB} /-1.9 \mathrm{~dB} \\ 1.06 / 1.75 \end{gathered}$ |

## General Data

| Operate time at $U_{\text {nom }}$ typ. / max. | $1 \mathrm{~ms} / 2 \mathrm{~ms}$ |
| :---: | :---: |
| Reset time (latching) at $U_{\text {nom }}$, typ. / max. | $1 \mathrm{~ms} / 2 \mathrm{~ms}$ |
| Release time without diode in parallel (non-latching), typ. / max. | 0.4 ms / 1 ms |
| Release time with diode in parallel (non-latching), typ. / max. | $1.2 \mathrm{~ms} / 2 \mathrm{~ms}$ |
| Bounce time at closing contact, typ. / max. | $1 \mathrm{~ms} / 3 \mathrm{~ms}$ |
| Maximum switching rate without load | 200 operations/s |
| Ambient temperature | $-40^{\circ} \mathrm{C} \ldots+70^{\circ} \mathrm{C},+85^{\circ} \mathrm{C}$ on request |
| Thermal resistance | < 130 K/W |
| Maximum permissible coil temperature | $85^{\circ} \mathrm{C}$ |
| Vibration resistance (function) | $\begin{gathered} 20 \mathrm{G}, 200 \text { to } 2000 \mathrm{~Hz} \\ 40 \mathrm{G}, 10 \text { to } 200 \mathrm{~Hz} \end{gathered}$ |
| Shock resistance, half sinus, 11 ms | 50 G (function) |
| Degree of protection / Environmental protection | immersion cleanable, IP 67 / RT III |
| Needle flame test | application time 20 s , no burning < 15s |
| Mounting position | any |
| Processing information | Ultrasonic cleaning possible |
| Weight (mass) | max. 2 g |
| Terminal surface | SnCu 0.7 |
| Moisture sensitive level (JEDEC J-STD-020B) - SMD types | MSL 3 |
| Resistance to soldering heat | $265{ }^{\circ} \mathrm{C} / 10 \mathrm{~s}$ |

All data refers to $23^{\circ} \mathrm{C}$ unless otherwise specified.

## P1 V23026 Relay

## Recommended Soldering Conditions

Soldering conditions according IEC 60058-2-58 and IPC/JEDEC J-STD-020B


Vapor Phase Soldering: Temperature/Time Profile (Lead and Housing Peak Temperature)

## Resistance to soldering heat - Reflow profile



Infrared Soldering: Temperature/Time Profile (Lead and Housing Peak Temperature)

## Recommended reflow soldering profile



Infrared Soldering: Temperature/Time Profile (Lead and Housing Peak Temperature)

## P1 V23026 Relay

Packing


Tube for THT version 40 relays per tube 2‘000 relays per box


Tape and reel for SMT version 480 relays per reel 2‘400 per box

## Reel dimension




#### Abstract

IM Relays 4th generation slim line - low profile polarized 2 c/o telecom signal relay with bifurcated contacts, available as non latching or latching relay with 1 coil. Nominal voltage range from 1.5 ... 24 V , coil power consumption of 50 .. 200 mW , latching relays with 1 coil 100 mW . The IM relay is available as through hole and surface mount type (J-Legs and Gull Wings) and capable to switch loads up to $60 \mathrm{~W} / 62,5 \mathrm{VA}$. It is currently the only 2 A rated 4 G relay on the market. Dielectric strength fulfills the Telcordia requirements according GR $1089(2,5 \mathrm{kV}-2 / 10 \mu \mathrm{~s})$ and FCC part $68(1,5 \mathrm{kV}-10 / 160 \mu \mathrm{~s})$. The IM relay is tested according CECC/IECQ and certified in accordance with IEC/EN 60950 and UL 60950. Dimensions approx. $10 \times 6 \mathrm{~mm}$ board space and 5.65 mm height.


## P2 Relays

3rd generation polarized 2 c/o telecom relay with bifurcated contacts, available as non latching or latching relay with 1 or 2 coils. Nominal voltage range from $3 \ldots 24 \mathrm{~V}$, coil power consumption 140 mW , latching relays with 1 coil 70 mW . The P2 Relay is available as through hole or surface mount type and capable to switch currents up to 5 A . Dielectric strength fulfills the Telcordia requirements according GR $1089(2,5 \mathrm{kV}-2 / 10 \mu \mathrm{~s})$ and FCC part $68(1,5 \mathrm{kV}-10 / 160 \mu \mathrm{~s})$. The P2 relay is tested according CECC/IECQ and certified in accordance with IEC/EN 60950 and UL 60950. Dimensions approx. $15 \times 7,5 \mathrm{~mm}$ board space and 10 mm height.

## FX2 Relays

3rd generation polarized 2 c/o telecom relay with bifurcated contacts available as non latching or latching relay with 1 coil. Nominal voltage range from $3 \ldots 48 \mathrm{~V}$, coil power consumption of $80 \ldots 260 \mathrm{~mW}$ for the high sensitive version, 140... 300 mW for the standard version, latching relays with 1 coil 100 mW . The FX2 relay is available as through hole type and capable to switch loads up to $60 \mathrm{~W} / 62,5 \mathrm{VA}$. Dielectric strength fulfills the Telcordia requirements according GR $1089(2,5 \mathrm{kV}-2 / 10 \mu \mathrm{~s})$ and FCC part $68(1,5 \mathrm{kV}-10 / 160 \mu \mathrm{~s})$. The FX2 relay is tested according CECC/ IECQ and certified in accordance with IEC/EN 60950 and UL 60950.
Dimensions approx. $15 \times 7,5 \mathrm{~mm}$ board space and $10,7 \mathrm{~mm}$ height.

## FT2 / FU2 Relays

3rd generation non polarized, non latching 2 c/o telecom relay with bifurcated contacts. Nominal voltage range from $3 \ldots 48 \mathrm{~V}$, coil power consumption $200 \ldots 300 \mathrm{~mW}$. Most sensitive 48 V relay. Available as through hole and surface mount type. Dielectric strength fulfills the Telcordia requirements according GR $1089(2,5 \mathrm{kV}-2 / 10 \mu \mathrm{~s})$ and FCC part $68(1,5 \mathrm{kV}-10 /$ $160 \mu \mathrm{~s}$ ). The FT2/FU2 relay is tested according CECC/IECQ and certified in accordance with IEC/EN 60950 and UL 60950.
Dimensions approx. $15 \times 7,5 \mathrm{~mm}$ board space and 10 mm height.

## FP2 Relays

3rd generation polarized 2 c/o telecom relay with bifurcated contacts, available as non latching or latching relay with 1 or 2 coils. Nominal voltage range from $3 \ldots 48 \mathrm{~V}$, coil power consumption of $80 \ldots 260 \mathrm{~mW}$ for the high sensitive version, $140 . .300 \mathrm{~mW}$ for the standard version, latching relays with 1 coil 100 mW .. The FP2 Relay is available as through hole type and capable to switch loads up to $60 \mathrm{~W} / 62,5 \mathrm{VA}$. Dielectric strength fulfills FCC part $68(1,5 \mathrm{kV}-10 / 160 \mu \mathrm{~s})$. The FP2 is tested according CECC/IECQ approved.
Dimensions approx. $14 \times 9 \mathrm{~mm}$ board space and 5 mm height.

## MT2

2nd generation non polarized, non latching 2 c/o telecom and signal relay with bifurcated contacts. Nominal voltage range from 3 ... 48 V , coil power consumption $150 / 200 / 300 / 400$ and 550 mW Dielectric strength fulfills the requirements according FCC part 68 ( $1,5 \mathrm{kV}-10 / 160 \mu \mathrm{~s}$ ).
Dimensions approx. $20 \times 10 \mathrm{~mm}$ board space and 11 mm height.

## D2n Relays

2nd generation non polarized 2 c/o relay for telecom and various other applications. Nominal voltage range from 3 ... 48 V , coil power consumption from 150 .... 500 mW . The D2n relay is capable to switch currents up to 3A. Dielectric strength fulfills the requirements according FCC part $68(1,5 \mathrm{kV}-10 / 160 \mu \mathrm{~s})$. Dimensions approx. $20 \times 10 \mathrm{~mm}$ board space and 11 mm height.

## P1 Relays

Extremely sensitive, polarized 1 c/o relay with bifurcated contacts for a wide range of applications, available as non latching or latching relay with 1 or 2 coils. Nominal voltage range from $3 \ldots 24 \mathrm{~V}$, coil power consumption 65 mW , latching relays with 1 coil 30 mW . The P1 relay is available as through hole or surface mount type and capable to switch currents up to 1 A. Dielectric strength fulfills the requirements according FCC part 68 (1,5 $\mathrm{kV}-10 / 160 \mu \mathrm{~s}$ ). Dimensions approx. $13 \times 7,6 \mathrm{~mm}$ board space and 7 mm height for THT or 8 mm height for SMT version.

## W11 Relays

Low cost, non polarized 1 c/o relay for various applications. Nominal voltage range from $3 \ldots 24 \mathrm{~V}$, coil power consumption 450 mW , sensitive versions 200 mW . The W11 relay is capable to switch currents up to 3 A . Dielectric strength 1000 Vrms.
Dimensions approx. $15,6 \times 10,6 \mathrm{~mm}$ board space and $11,5 \mathrm{~mm}$ height.

## Reed Relays

High sensitive, non polarized relay for telecom and various other applications, available with $1 \mathrm{n} / \mathrm{o}, 2 \mathrm{n} / \mathrm{o}$ or 1c/o contacts. Nominal voltage range from $5 \ldots 24 \mathrm{~V}$, coil power consumption $50 \ldots 280 \mathrm{~mW}$ for $1 \mathrm{n} / \mathrm{o}$ and $125 \ldots$ 280 mW for $2 \mathrm{n} / \mathrm{o}$ or $1 \mathrm{c} / \mathrm{o}$ versions. Reedrelays are available in DIP or SIL housing and capable to switch currents up to 0,5 A. Integrated diode and/or electrostatic shield optional. Dielectric strength 1500 Vdc. Dimensions approx. $19,3 \times 7 \mathrm{~mm}$ board space and $5 \ldots 7,5 \mathrm{~mm}$ height for DIP or $19,8 \times 5 \mathrm{~mm}$ board space and $7,8 \mathrm{~mm}$ height for SIL version.

## Cradle Relays

Extremely reliable and mature relay family of 1st generation for various signal switching applications. Available as non polarized, polarized / latching and relay with AC coil. The benefit is the possibility of combining various contact sets from 1 up to 6 poles, single and bifurcated contacts, different contact materials with a coil voltage range from $1,5 \mathrm{Vdc}$ to 220 Vac . Cradle relays are available as dust protected and hermetically sealed versions, with plug in or solder terminals and are capable to switch currents up to 5 A . Forcibly guided (linked) contact sets optional. Dielectric strength 500 Vrms. Dimensions from approx. $19 \times 24$ to $19 \times 35 \mathrm{~mm}$ board space and 30 mm height.

## Other Relays

We offer a variety of different relay families for maintenance and replacement purposes. These relays are up to 60 years old now, such as Card Relay SN (V23030 series), Small General Purpose Relay (V23006 series), Small Polarized Relay (V23063 ... V23067 and V23163 ... V23167 series) Accessories like sockets, hold down springs, etc. optional.

## High Frequency Relays

HF3 / HF3S / HF6 series RF relays offering excellent RF characteristics in a small package. All HF series relays are suitable for SMD soldering processes. Available as non latching or latching versions with 1 or 2 coils and a nominal coil voltage range from $3 \ldots 24 \mathrm{~V}$, a coil power consumption of 140 mW or 70 mW (single coil latching types).

HF3: Low cost RF relay suitable up to 3 GHz . Impedance 50 and 75 Ohm. 50 W hot switching and 50 W RF power carry capability. Dimensions $14.6 \times 7.3 \times 10.3 \mathrm{~mm}$.

HF3S: High performance, high power RF relay suitable up to 3 GHz , 50 W hot switching and 150 W RF power carry capability. Dimensions $15 \times 7.6 \times 10.6 \mathrm{~mm}$.

HF6: High performance, high power RF relay suitable up to 6 GHz , 50 W hot switching and 50 W RF power carry capability.
Dimensions $15 \times 7.6 \times 10.6 \mathrm{~mm}$.


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