

#### Coil data (continued)

Coil versions, THT and SMT, bistable 2 coils							
Coil	Rated	Set	Reset	Coil	Rated coil		
code	voltage	voltage	voltage	resistance	power		
	VDC	VDC	VDC	Ω ±10%	mW		
106	3	2.25	2.25	130	69		
101	5	3.75	3.75	390	64		
105	9	6.75	6.75	1200	68		
102	12	9.00	9.00	1500	96		
	0.41)						

All figures are given for coil without pre-energization, at ambient temperature +23°C. Coils I and II are identical.

 $^{1)}$  A nominal voltage of 24VDC is feasible with a 12VDC coil with a series resistor (1500 $\!\Omega)$ 

#### Coil data (continued)

Coil versions, THT, bistable 1 coil								
Coil	Rated	Set	Reset	Coil	Rated coil			
code	voltage	voltage voltage resistar		resistance	power			
	VDC	VDC	VDC	Ω ±10%	mW			
056	3	2.25	-2.25	300	30			
051	5	3.75	-3.75	740	34			
057	9	6.75	-6.75	2160	38			
052	12	9.00	-9.00	4500	32			
054	24	18.00	-18.00	4500	128			

#### Coil data (continued)

#### Coil versions, SMT, bistable 1 coil

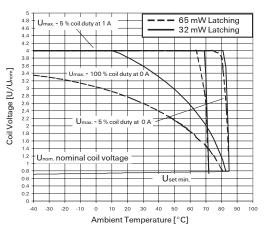
Coil	Rated	Set	Reset	Coil	Rated coil
COIL	naleu	Sel	nesel	001	naled coll
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ω ±10%	mW
051	5	3.75	-3.75	740	34
052	12	9.00	-9.00	4500	32

\_A nominal voltage of 24V is feasible with a 12V coil with a series resitor (4500 $\Omega$ ) Other coil voltages on request

All figures are given for coil without pre-energization, at ambient temperature +23°C. Coils I and II are identical.

#### Coil operative range, bistable

 $U_{\text{max}}$   $\$  upper limit of the operative range of the coil voltage (limiting voltage) when coils are



continuously energized.

 $U_{op\,min}$  lower limit of the operative range of the coil voltage (reliable operate voltage).  $U_{rel\,min}$  lower limit of the operative range of the coil voltage (reliable release voltage).

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Insulation Data		
Initial dielectric strength		
between open contacts	500V <sub>rms</sub>	
between contact and coil	1500V <sub>ms</sub>	
Initial surge withstand voltage		
between contact and coil	2500V	
Capacitance		
between open contacts	max. 5pF	
between contact and coil	max. 6pF	
Clearance/creepage		
between contact and coil	0.75mm	
between adjacent contacts	0.75mm	

### **RF** Data

Isolation at 100MHz/900MHz	-30.0dB/-18.0dB
Insertion loss at 100MHz/900MHz	-0.12dB/-1.9dB
Voltage standing wave ratio (VSWR)	
at 100MHz/900MHz	1.06/1.75

#### Other Data

Material compliance: ELLBoHS/ELV (	China RoHS, REACH, Halogen content					
refer to the Product Compliance Support Center al						
	m/customersupport/rohssupportcenter					
Ambient temperature	$-40 \text{ to } +85^{\circ}\text{C}$					
Category of environmental protection						
IEC 61810	, RT III - immersion cleanable					
Vibration resistance (functional)	20g, 200 to 2000Hz					
	40g, 10 to 200Hz					
Shock resistance (functional)						
IEC 60068-2-27 (half sine)	50 g					
Terminal type	PCB terminals and SMT terminals					
Weight	max. 2g					
Resistance to soldering heat THT						
IEC 60068-2-20	265 °C/10s					
Resistance to soldering heat SMT						
IEC 60068-2-58	see reflow profile					
Moisture sensitive level, JEDEC J-Sto	1-020D MSL3					
Washing	not recommended					
Ultrasonic cleaning	possible					
Packaging unit	· · · · ·					
THT	2000 pcs.					
SMT	2400 pcs.					

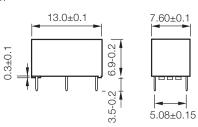
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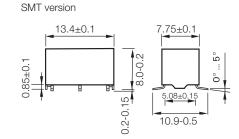
Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change.

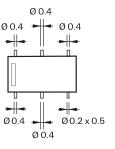


#### Dimensions

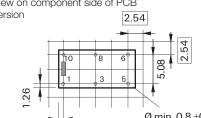
THT version



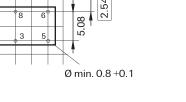


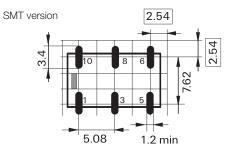


### PCB layout



TOP view on component side of PCB THT version 2.5

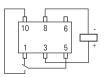




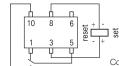
#### Terminal assignment



1.5

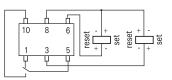


Bistable version, 1 coil reset condition



Contacts are shown in reset condition. Both coils can be used either as set or reset coil. Contact position might change during transportation and must be reset before use.

Bistable version, 2 coils reset condition



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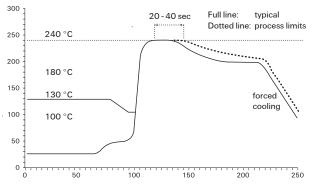


#### Processing

250

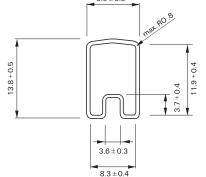
Recommended soldering conditions

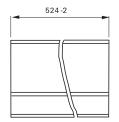
### Soldering conditions according IEC 60058-2-58 and IPC/JEDEC J-STD-020B



### Packing

Tube for THT version 40 relays per tube,  $2000 \pm 600$  relays per box



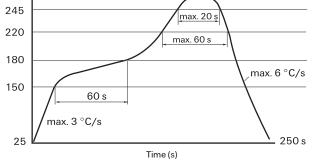


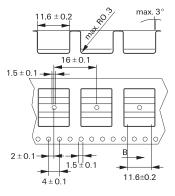
Tape and reel for SMT version 480 relays per reel, 2400 relays per box

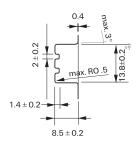


Infrared Soldering: temperature/

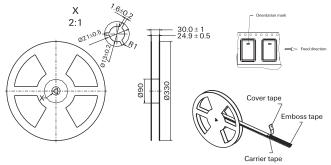
time profile (lead and housing







**Reel dimensions** 



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Product code structure		Typical product code		A1	002	B201
Туре						
V23026 P1 Series Signal Relay						
/ersion						
A1 THT, monostable	D	SMT, monostable				
<b>B1</b> THT, bistable (latching), 2 coils	E	SMT, bistable (latching), 2 coils				
C1 THT, bistable (latching), 1 coil	E.	SMT, bistable (latching), 1 coil				
Coil					-	
Coil code: please refer to coil version	s table					
Contacts						-
<b>B201</b> 1 form C, 1 CO						

Product Code	Version	Coil	Coil voltage	Part Number
V23026A1006B201	THT version	monostable	3VDC	1-1393774-7
V23026A1001B201			5VDC	1393774-1
V23026A1005B201			9VDC	1-1393774-5
V23026A1002B201			12VDC	1393774-8
V23026A1004B201			24VDC	1-1393774-2
V23026B1106B201		bistable, 2 coils	3VDC	1393775-3
V23026B1101B201			5VDC	3-1393774-4
V23026B1105B201			9VDC	1393775-2
V23026B1102B201			12VDC	3-1393774-5
V23026C1056B201			3VDC	2-1393774-6
V23026C1051B201			5VDC	2-1393774-0
V23026C1057B201			9VDC	2-1393774-7
V23026C1052B201			12VDC	2-1393774-1
V23026C1054B201			24VDC	2-1393774-4
V23026D1026B201	SMT version	monostable	3VDC	1393776-8
V23026D1021B201			5VDC	1393776-3
V23026D1025B201			9VDC	1422015-9
V23026D1022B201			12VDC	1393776-4
V23026D1024B201			24VDC	1393776-7
V23026E1106B201		bistable, 2 coils	3VDC	1393777-3
V23026E1101B201			5VDC	1422015-6
V23026E1105B201			9VDC	1393777-2
V23026E1102B201			12VDC	1393776-9
V23026F1051B201			9VDC	1422015-8
V23026F1052B201			12VDC	4-1393774-3

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