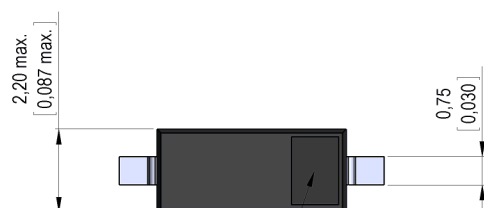
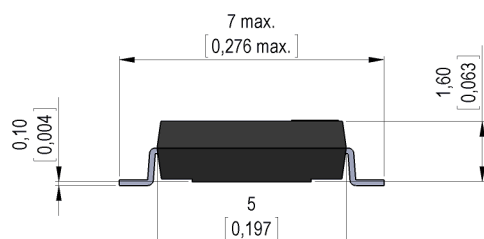
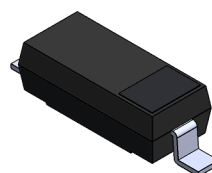
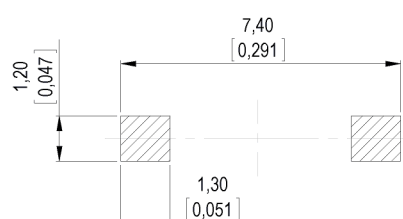


**Dimensions mm[inch]**

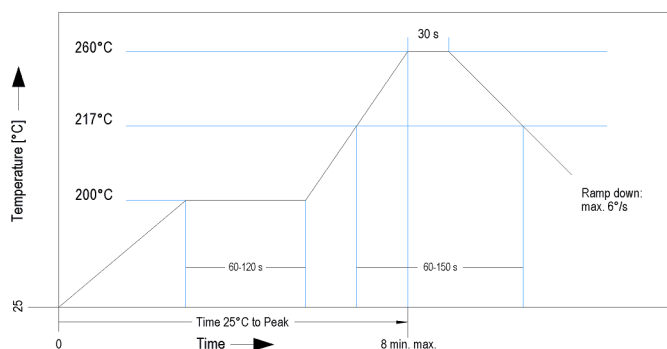
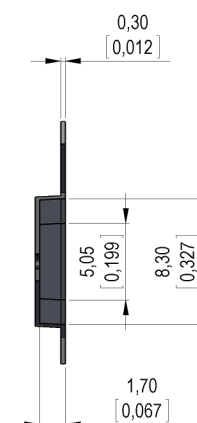
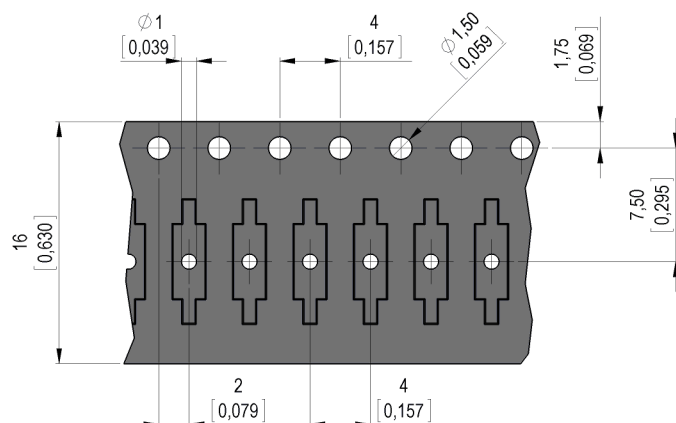
 tolerances according to DIN ISO 2768-m  
 Toleranzen gem. DIN ISO 2768-m


gap position

**Isometric**

 Scale 5:1  
 Maßstab 5:1

**Recommended PCB Pad Layout**

**Solder Reflow Profile**

reflow soldering conditions according to JEDEC norm J-STD 020D.1


**Packaging**


Gap position opposite to the sprocket holes.



*Products for tomorrow...*

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Item No.:

**9240000020**

Item:

**MK24-A-2**

| Magnetic properties                   | Conditions                                                      | Min        | Typ | Max | Unit |
|---------------------------------------|-----------------------------------------------------------------|------------|-----|-----|------|
| Pull-In excitation (modified contact) | Reed switch modified<br>phys. conditioned tolerance of +/- 1 AT | 22         |     | 55  | AT   |
| Test equipment                        | Testing 100%                                                    | KMS11+AP74 |     |     |      |
| Pull-In in milliTesla (modified conta | MS150 -<br>phys. caused tolerance +/- 0,1mT                     | 1,8        |     | 4,5 | mT   |

| Contact data 04                   | Conditions                                                           | Min | Typ | Max  | Unit |
|-----------------------------------|----------------------------------------------------------------------|-----|-----|------|------|
| Contact rating ( < 10 AT )        | Any DC combination of V & A<br>not to exceed their individual max.'s |     |     | 1    | W    |
| Switching voltage                 | DC or Peak AC                                                        |     |     | 30   | V    |
| Switching current (< 10 AT)       | DC or Peak AC                                                        |     |     | 0,1  | A    |
| Carry current (< 10 AT)           | DC or Peak AC                                                        |     |     | 0,3  | A    |
| Contact resistance static(<10AT)  | Measured with 40% overdrive<br>Start value                           |     |     | 250  | mOhm |
| Insulation resistance             | RH <45 %, 100 V test voltage                                         | 10  |     |      | GOhm |
| Breakdown voltage (< 10 AT)       | according to IEC 255-5                                               | 60  |     |      | VDC  |
| Operate time incl. bounce (<10AT) | measured with 40% overdrive                                          |     |     | 0,25 | ms   |
| Release time                      | measured with no coil excitation                                     |     |     | 0,15 | ms   |
| Capacity                          | @ 10 kHz across open switch                                          |     | 0,1 |      | pF   |

| Special Product Data    | Conditions | Min | Typ | Max | Unit |
|-------------------------|------------|-----|-----|-----|------|
| Reach / RoHS conformity |            |     | yes |     |      |

| Environmental data          | Conditions                            | Min          | Typ | Max | Unit |
|-----------------------------|---------------------------------------|--------------|-----|-----|------|
| Shock                       | 1/2 sine, duration 11ms, in 3 axis    |              |     | 15  | g    |
| Vibration                   | from 10 - 2000 Hz                     |              |     | 10  | g    |
| Operating temperature       |                                       | -40          |     | 115 | °C   |
| Storage temperature         |                                       | -55          |     | 115 | °C   |
| Soldering Temperature Tsold | Reflow according IPC/JEDEC J-STD-020C |              |     | 260 | °C   |
| Washability                 |                                       | fully sealed |     |     |      |

| General data | Conditions | Min                                        | Typ | Max | Unit |
|--------------|------------|--------------------------------------------|-----|-----|------|
| Remark       |            | Pick & place force should not exceed 25cN! |     |     |      |
| Packaging    |            | T&R per 2000 pcs. / Tray H20               |     |     |      |

Modifications in the sense of technical progress are reserved

Designed at: 01.07.09 Designed by: THAUKE

Approval at: 22.02.11 Approval by: JHEYDER

Last Change at: 12.07.12 Last Change by: THAUKE

Approval at: 23.07.12 Approval by: AWEBER

Version: 7

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