PIC
SWITCHING THE SMART WAY

PMC-1001FH

Standard SMD Reed Switch

Electrical Characteristics @ 25 °C

Contact form		A
Contact material		Ru
Contact rating max.	W / VA	10
Switching voltage max.	VDC	180
	VAC	130
Switching current max.	A	0.7
Carry current max.	A	1
Breakdown voltage min.	VDC	200
Contact resistance max. (initial)	mΩ	200
Insulation resistance min.	Ω	10^9

Magnetical Characteristics (of unmodified Reed Switch) @ 25 °C

Pull in range available	AT	10 - 25
Drop out min.	AT	4
Test coil	TC	010
Test equipment tolerance	± AT	2

Operating Characteristics @ 25 °C

Switching frequency max.	Hz	500
Resonant frequency typ.	Hz	5000
Operate time max. (incl. bounce)	ms	0.5
Release time max.	ms	0.3

Environmental Characteristics

Operating temperature	°C	-40 to +125
Storage temperature	°C	-40 to +60
Soldering temperature max.	°C	255
Vibration (50-2000 Hz)	g	20
Shock (1/2 sin 11 ms)	g	100
Lead tensile strength min.	kg	3

Features

- typ. Load resistive
- Zero power consumption
- Not ESD sensitive
- Over 1 billion reliable operations at dry circuits or low level loads
- Perfect economical alternative to Hall switches
- Tape & reel packaging
- Electrical ratings valid above 10 AT

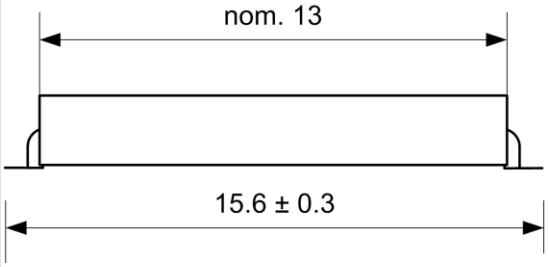
Approvals

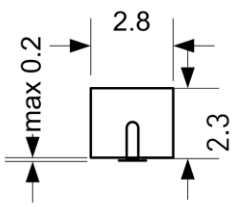
RoHS

REACH

Contact PIC for Agency Ratings!

Dimensions in mm





Position of contact blades not defined.

Ordering Information

Packing Unit	2500	pcs
Weight per piece	0.2	g
Weight per package	1050	g
Reel size	13	inches
Standard AT ranges		
	10 to 15	AT
	15 to 20	AT
	20 to 25	AT

Ordering example

PMC1001FH1015 describes PMC-1001FH with 10-15 AT.

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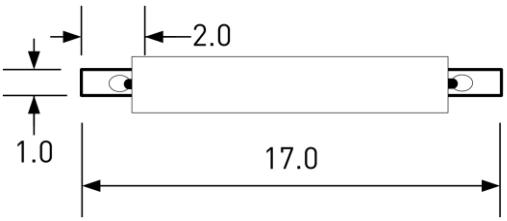
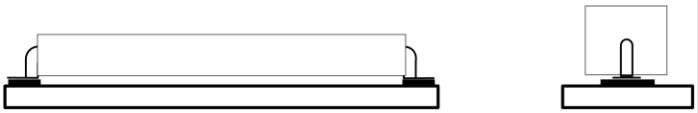
Recommended PCB Layout in mm

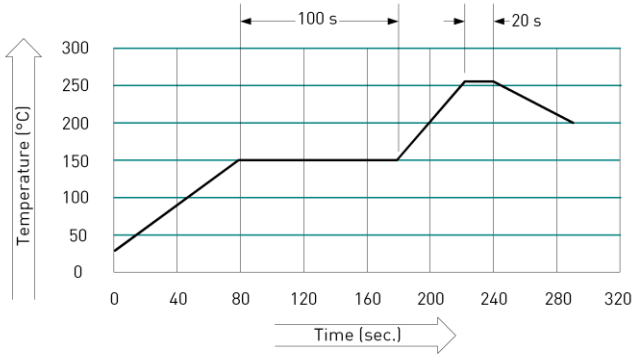


Pad sizes



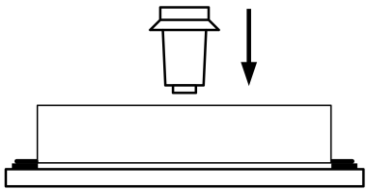
Final assembly position

Soldering Information



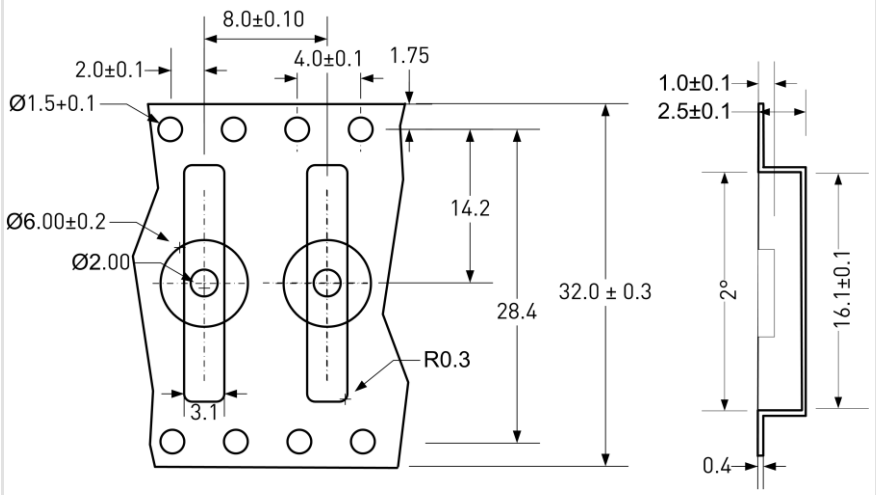
Mounting Force

Recommended Mounting Force	3 N
Maximum Mounting Force	8 N



Tape Dimensions in mm

Tolerance ±0.1 unless otherwise specified



Remarks

When placed onto ferromagnetic parts switching distance of PMC-1001FH may reduce.

Electromagnetical influences and magnetic fields may change the switching behaviour of the SMD Reed Switch.

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