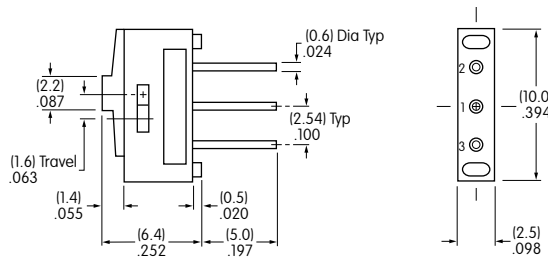
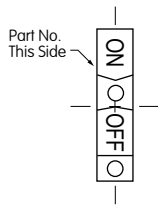
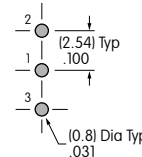


SMVA001



Actuator shown in RIGHT position.

Dimensions in mm/inch



Footprint

LEGEND SPECIFICATIONS

Legend	ON OFF
Type Style	Arial Narrow Regular
Type Size	4.5 Point
Legend Color	White
Print Method	Pad Print

Legend shown is illustrative only. Actual art may vary.

SINGLE POLE WITH STRAIGHT PC TERMINALS

Base Switch: Red Actuator & Gray Body	Pole & Circuit	Slide Position			Connected Terminals			Schematic
		Right	Center	Left	Right	Center	Left	
SM0320102	SPDT	ON	NONE	ON	1-3	OPEN	1-2	

Base Switch Specifications

Electrical Capacity (Resistive Load)

Maximum Level: 500mA @ 12V DC
Minimum Level: 1.0mA maximum @ 10mV AC/DC maximum

Other Ratings

Contact Resistance: 30 milliohms maximum
Insulation Resistance: 100 megohms minimum @ 500V DC
Dielectric Strength: 500V AC for 1 minute minimum
Mechanical Life: 1,000 operations minimum
Electrical Life: 1,000 operations minimum
Nominal Operating Force: 2.0N
Contact Timing: Nonshorting (Break-before-make)
Total Travel: .063" (1.6mm)

Materials & Finishes

Actuator: Glass fiber reinforced polybutylene terephthalate (UL94V-0)
Case: Glass fiber reinforced polyamide (UL94V-0)
Movable Contacts: Brass with gold plating over nickel
Stationary Contacts: Brass with gold plating over nickel
Terminals: Brass with gold plating over nickel

Environmental Data

Operating Temperature Range: -40°C through +85°C (-40°F through +185°F)
Humidity: 90 - 95% humidity for 96 hours @ 40°C (104°F)
Vibration: 10 ~ 55Hz with peak-to-peak amplitude of 1.5mm traversing the frequency range & returning in 1 minute; 3 right angled directions for 2 hours
Shock: 50G (490m/s²) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)

PCB Processing

Soldering: Wave Soldering recommended: Preheat temperature 110°C for 40 seconds; Peak temperature 270° for 6 seconds; 2 cycles. Thickness of PCB 1.6mm (.063")
 Manual Soldering: 350°C for 3 seconds, 1 cycle
Cleaning: These devices are not process sealed. Hand clean locally using alcohol based solution.

Standards & Certifications

Flammability Standards: Actuator & case UL94V-0
 The SM series devices have not been tested for UL recognition and CSA certification. These switches are designed for use in a low-voltage, low-current circuit. When used as intended in a low-voltage, low-current circuit, the results do not produce hazardous energy.

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