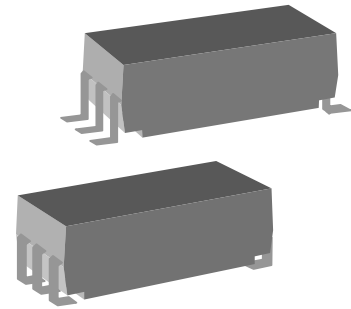


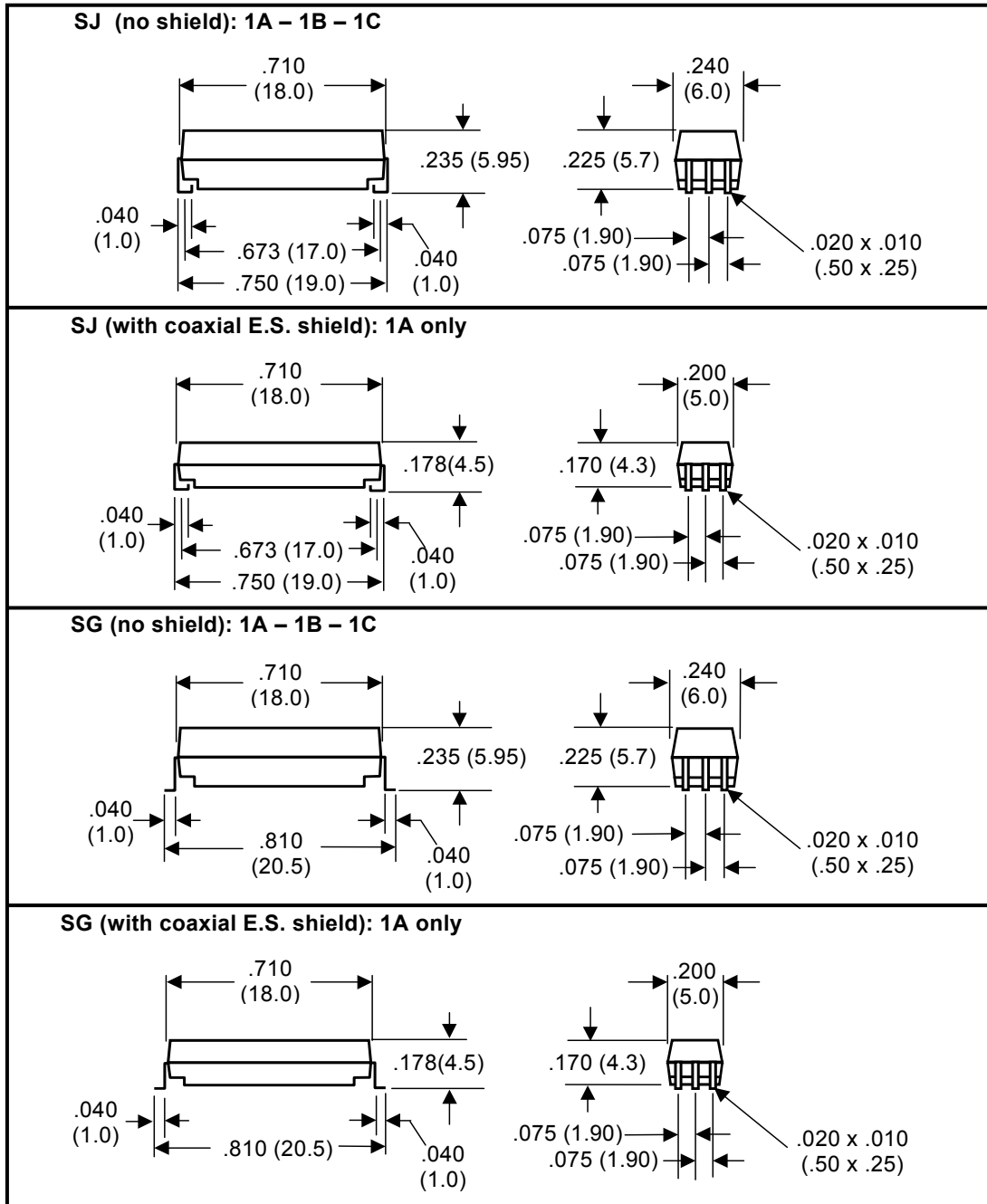
# Surface Mount Reed Relays

## "SJ" and "SG" series

- Miniature surface mount package.
- True SMT process compatible.
- Sensitive coil.
- Coaxial Electrostatic Shield for RF switching.



### OUTLINE DIMENSIONS



**Notes:**

1. Dimensions are in inches (mm).
2. Unused terminals are deleted.

## “SJ” AND “SG” SERIES SURFACE MOUNT REED RELAYS

### CONTACT RATINGS AND OPERATING CHARACTERISTICS (@25°C)

Characteristics	Form A/B	Form C
Power (Max.)	10 Watts	3 Watts
Switching Voltage (Max.)	150 VDC	100 VDC
Switching Current (Max.)	0.5 Amps	0.25 Amps
Carry Current (Max.)	1.0 Amps	0.5 Amps
Breakdown Voltage (Min.) (Across contacts) (Contacts to coil)	200 VDC 500 VDC	200 VDC 500 VDC
Life Expectancy: (Resistive load) (Low level) (Rated load)	3 x 10 <sup>8</sup> Operations (10mVDC@ 10 $\mu$ A) 8 x 10 <sup>5</sup> Operations (20VDC@ 0.5A)	1 x 10 <sup>8</sup> Operations (10mVDC@ 10 $\mu$ A) 2 x 10 <sup>6</sup> Operations (10VDC@ 0.25A)
Contact Resistance (Max. Initial)	0.2 Ohms	0.2 Ohms
Operating Time (Max. Including Bounce)	1.0 mSec	2.0 mSec
Release Time (Max.)	0.5 mSec	0.5 mSec
Insulation Resistance (Min.)	10 <sup>10</sup> Ohms	10 <sup>9</sup> Ohms

Soldering Temperature (Vapor phase) (IR reflow)	+215° C @ 30 Sec. +260° C @ 10 Sec.
Operating Temperature	-30°C to +85°C
Vibration	20G, 10 to 2000 Hz
Shock	50G @ 11 MS durations

### PART NUMBERS AND COIL DATA (@ 25°C)

Contact Form	Part Number	Part Number	Nom. Volt VDC	Max. Volt VDC	Coil Res. Ohms +/-10%	Must Operate VDC	Must Release VDC	Schematic Top-view
	J-Lead	Gull Wing						
1A	SJ051A00	SG051A00	5	7.5	500	3.8	0.5	
	SJ121A00	SG121A00	12	18	1000	9.0	1.0	
1B	SJ051B00	SG051B00	5	7.5	500	3.8	0.5	
	SJ121B00	SG121B00	12	18	500	9.0	1.0	
1C	SJ051C00	SG051C00	5	7.5	200	3.8	0.5	
	SJ121C00	SG121C00	12	18	500	9.0	1.0	
1A With Coaxial E.S. Shield	SJ051A0B	SG051A0B	5	7.5	150	3.8	0.5	
	SJ121A0B	SG121A0B	12	18	600	9.0	1.0	