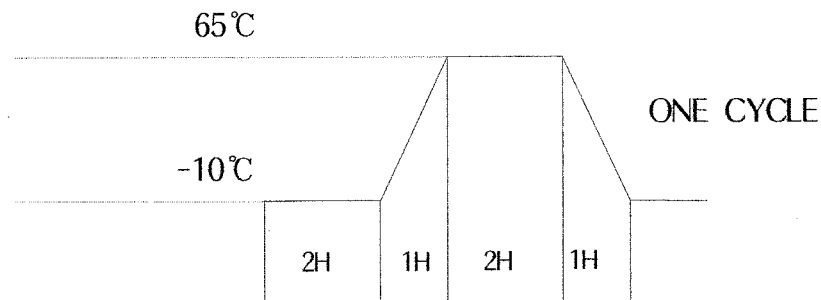


1. RATING : 12V D.C. 50mA
2. MECHANICAL SPECIFICATIONS
- 2-1.Actuating force : 160±30gf, 260±50gf
 - 2-2.Return force : Greater than 50gf
 - 2-3.stop strength : Greater than 3Kgf (for 3 seconds)
 - 2-4.Travel : 0.25 ± 0.1 mm
 - 2-5.Arrangement of action : Tactile feed-back
 - 2-6.Operating temperature range : -20℃-70℃ , 45-85% RH
 - 2-7.Storage temperature range : -30℃-80℃ However,96hours maximum for continuous storage over a range -20℃-30℃ and range 70℃-80℃
 - 2-8.Stem withdrawal force : Greater than 500gf(pull vertically to the opposite direction of stem operation)
3. ELECTRICAL SPECIFICATION
- 3-1.Contact arrangement : Single pole , Single throw
 - 3-2.Contact resistance : Less than 100mΩ when tested by the voltmeter method at 5V D.C.10mA,or by an ohmmeter allowing a small current at 1,000Hz (measurements to be made with a 270gf load applied vertically at the center of switch)
 - 3-3.Insulation resistance : Greater than 100MΩ (100V DC insulation resistance meter)
 - 3-4.Dielectric strength : Capable of withstanding 250V A.C 1(one)min.
- 4.ENDURANCE
- 4-1. Operating life : Following 100,000 cycles of operation cycling rate (2 operations per sec.) at a force of depression not exceeding 270gf with a resistive load supplying 12V D.C. 50mA, the following requirements shall be satisfied.

- 4-1-1. Actuating force : Plus or minus 30% of the initial force
- 4-1-2. Contact resistance : Less than 500mΩ
- 4-2. Moisture resistance : Following exposure to a 60°C ± 2°C , 90-95% R.H. environments in a test chamber for 96 hours and then, out of the chamber, to room condition of normal temperature and humidity for 30 minutes, the requirements set force below shall be met.
- 4-2-1. Insulation resistance : Greater than 10MΩ
- 4-2-2. Dielectric strength : Same as Item 3.4
- 4-2-3. Contact resistance : Same as Item 3.2
- 4-3. Heat resistance : Following exposure to an 80°C environment in a test chamber for 96 hours and then, out of the chamber, to room condition of normal temperature and humidity for 30 minutes, the requirements in Items 2 and 3 shall be satisfied.
- 4-4. Resistance to low temperature : Following exposure to a -30°C environment in a test chamber for 96 hours and then, out of the chamber, to room condition of normal temperature and humidity for 30 minutes, the requirements in Items 2 and 3 shall be met.
- 4-5. Thermal cycling :

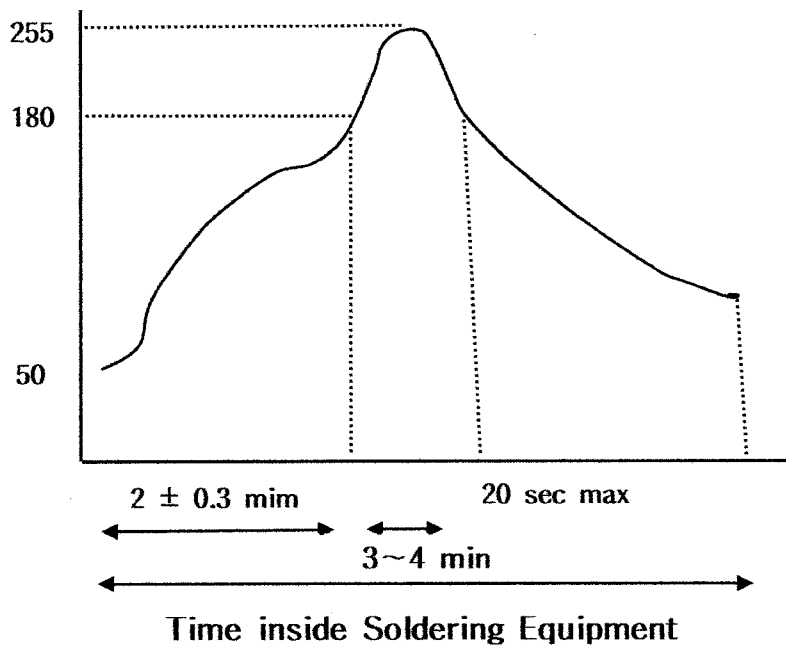


- 4-6. Shock resistance : Following 5 cycles of a thermal cycling test, one cycle of which is prescribed in the diagram above, the requirements in Item 2 and 3 shall be met.
- 4-7. Vibration resistance : Following application of an impact shock of 30G in accordance with the method 205, MIL-STD-202, the requirements in Items 2 and 3 shall be met.
- 4-7. Vibration resistance : Following the test conducted according to the method 201, MIL-STD-202, the switch under test shall confirm to the requirements in Items 2 and 3 without any sign of defect both in appearance and actuation.

5.5 AUTOMATIC SOLDERING CONDITIONS

(in case the automatic flow soldering is to be used.)

- 5.5-1. Soldering temperature : 255°C max
- 5.5-2. Soldering time : Continuous dipping duration shall not exceed 5 seconds



Temperature Profile