

DATA SHEET

SUNGMUN CODE : SKD & SKS SERIES

DESCRIPTION : DIP SWITCH

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SUNGMUN
ELECTRONICS

DIP SWITCH SPECIFICATION

SKD & SKS SERIES

Rev. 01
P : 1 / 3

1. Rating

Non-Switching : 100mA , 50VDC

Switching : 25mA , 24VDC

2. Switch Operation

: Horizontal sliding

3. Electrical Acteristic

ITEM	DESCRIPTION	TEST CONDITIONS	REQUIREMENTS
3-1	Visual	Visually detect before applying any external force and experiment	The appearance of the product must not have the disadvantages that affect the function of the product.
3-2	Contact Resistance	Measuring the resistance at the two extremes of the switch	50mΩ max.
3-3	Insulation Resistance	To be measured with an insulation measuring device of 500V DC between all the terminals and between the terminals and the frame for 1 minute ±5 seconds	100 MΩ min
3-4	Dielectric withstanding Voltage	AC 300V (50-60Hz, 2mA current) being applied Between all the adjacent terminals and between the terminal and frame for 1 minute.	No breakdown insulation

4. Mechanical Acteristic

ITEM	DESCRIPTION	TEST CONDITIONS	REQUIREMENTS
4-1	OPERATING FORCE	Applied in the direction of operation.	800gf Max
4-2	Solderability	After flux 250±5°C for 5±0.5 seconds	85 % coverage

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5. Durability

ITEM	DESCRIPTION	TEST CONDITIONS	REQUIREMENTS
5-1	Operation Life With Load	DC 24V 25mA 1,000 cycle operation at a rate of 15 ~ 20 cycle / minute	1. Insulation resistance Min 100 MOhm with DC 500V Dielectric breakdown voltage : AC 300V 1 minute no breakdown insulation 2. Contact resistance Max 100 mOhm
5-2	Cold Resistance	Switch for testing being kept in the conditions at $-40 \pm 3^{\circ}\text{C}$ in temperature for 96 hours, and in a normal ambient condition for one hour, then to be measured within one hour.	1. After testing, the product must meet the above requirements of 3-2~4-2 test items. 2. The operation force must meet $\pm 30\%$ of the specifications of the above 5 test items
5-3	Dry Heat Resistance	Switch for testing being kept in the conditions at $85 \pm 2^{\circ}\text{C}$ in temperature for 96 hours, and in a normal ambient condition for one hour, then to be measured within one hour.	1. After testing, the product must meet the above requirements of 3-2~4-2 test items. 2. Contact resistance Max 100 mOhm
5-4	Salt Fog Performance	Reference IEC 60068-2-11, 48H salt spray test	No yellow metal parts, oxidation and other poor, qualified products.

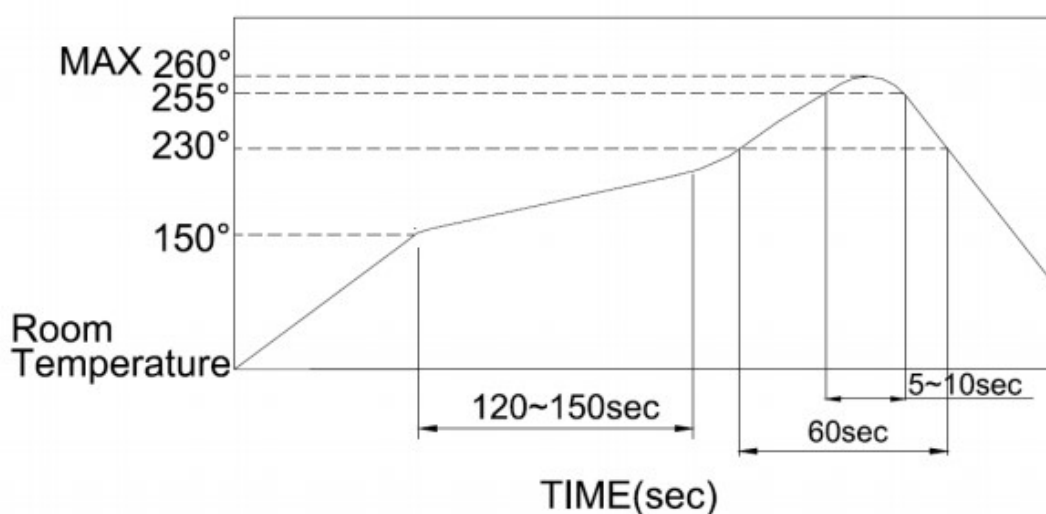
6. Soldering Information

6-1 Reflow Soldering : 260°C(Peak Temperature), 240°C ~ 260°C, 20S max

6-2 Manual Soldering: 30W iron, 320±5°C, 3S max

Keep in "off" position during soldering

■ Condition for Soldering – RM-V Series



The condition mentioned above is the temperature on the Cu foil of the PCB surface.

There are cases where board's temperature greatly differs from switch's surface temperature depending on board's material, size, thickness, etc. Care, therefore, should be used not to allow switch's surface temperature to exceed 260 °C.