## : ©hipsmall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation, and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!


## Contact us

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## General Specifications

## Electrical Capacity (Resistive Load)

Logic Level: 0.4VA maximum @ 28 V AC/DC maximum
(Applicable Range $0.1 \mathrm{~mA} \sim 0.1 \mathrm{~A} @ 20 \mathrm{mV}$ ~ 28V)
Note: Find additional explanation of operating range in Supplement section.

## Other Ratings

Contact Resistance: 80 milliohms maximum
Insulation Resistance: 500 megohms minimum @ 500V DC
Dielectric Strength: 500V AC minimum for 1 minute minimum
Mechanical Life: 100,000 operations minimum
Electrical Life: 100,000 operations minimum
10,000 operations minimum @ 0.1A @ 28V AC/DC
Nominal Operating Force: 1.30 N
Angle of Throw: $28^{\circ}$

## Materials \& Finishes

Actuator: Polyamide
Case: Glass fiber reinforced polyamide
Sealing Rings: Nitrile butadiene rubber
Movable Contacts: Phosphor bronze with gold plating
Stationary Contacts: Phosphor bronze with gold plating
Base: Glass fiber reinforced polyamide
Power Terminals: Phosphor bronze with gold plating Lamp Terminals: Phosphor bronze with gold plating

## Environmental Data

Operating Temperature Range: $\quad-25^{\circ} \mathrm{C}$ through $+55^{\circ} \mathrm{C}\left(-13^{\circ} \mathrm{F}\right.$ through $\left.+131^{\circ} \mathrm{F}\right)$
Humidity: $\quad 90 \sim 95 \%$ humidity for 240 hours @ $40^{\circ} \mathrm{C}\left(104^{\circ} \mathrm{F}\right)$
Vibration: $\quad 10 \sim 500 \mathrm{~Hz}$ with peak-to-peak amplitude of 1.5 mm traversing the frequency range \& returning in 1 minute; 3 right angled directions for 2 hours
Shock: $50 \mathrm{G}\left(490 \mathrm{~m} / \mathrm{s}^{2}\right)$ acceleration (tested in 6 right angled directions, with 5 shocks in each direction)

## PCB Processing

Soldering: Wave Soldering recommended. See Profile A in Supplement section.
Manual Soldering: See Profile A in Supplement section.
Cleaning: Automated cleaning. See Cleaning specifications in Supplement section.

Standards \& Certifications
The G Series toggles have not been tested for UL recognition or CSA certification.
These switches are designed for use in a low-voltage, low-current, logic-level circuit.
When used as intended in a logic-level circuit, the results do not produce hazardous energy.

## Distinctive Characteristics

Fully illuminated toggle for highly visible status indication with LED in red, green, or amber for single color and red/green for bicolor.

Ultra-miniature size allows high density mounting, and extremely light weight makes these switches ideal for handheld equipment.

Totally sealed body construction prevents contact contamination and allows time- and money-saving automated soldering and cleaning.

Molded-in, epoxy sealed terminals lock out flux, solvents, and other contaminants.

Award-winning STC contact mechanism with benefits unavailable in conventional mechanisms: smooth, positive detent actuation, increased contact stability, and unparalleled logic-level reliability. (Additional STC details in Terms \& Acronyms; see Supplement section.)
$.100^{\prime \prime} \times .100^{\prime \prime}(2.54 \mathrm{~mm} \times 2.54 \mathrm{~mm})$ terminal spacing conforms to standard PC board grid spacing. Round terminals facilitate easier throughhole mounting on PC boards.




# PC TERMINALS <br>  <br> Right Angle <br> V Vertical <br>  <br> <br> TYPICAL SWITCH DIMENSIONS 

 <br> <br> TYPICAL SWITCH DIMENSIONS}


Straight PC

$5 \& 6$ are LED terminals; 4 is a support pin on single color models \& an LED terminal on bicolor models.
G12JPC
Right Angle PC

$5 \& 6$ are LED terminals; 4 is a support pin on single color models \& an LED terminal on bicolor models.
G12JHD


5 \& 6 are LED terminals; 4 is a support pin on single color models \& an LED terminal on bicolor models.
G12JVCF

