

## 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.

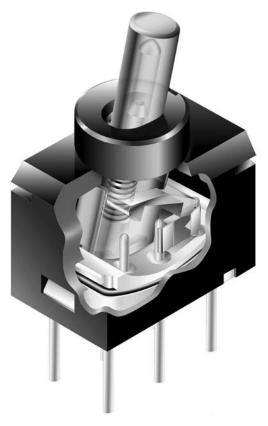
Totally sealed body construction prevents contact contamination and allows time- and money-saving automated soldering and cleaning.

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" x .100" (2.54mm x 2.54mm) terminal spacing conforms to standard PC board grid spacing. Round terminals facilitate easier throughhole mounting on PC boards.

Nonilluminated toggles available and shown in the Toggle section.









# General Specifications

#### **Electrical Capacity (Resistive Load)**

Logic Level: 0.4VA maximum @ 28V AC/DC maximum (Applicable Range 0.1mA ~ 0.1A @ 20mV ~ 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:	1.30N
Angle of Throw:	28°

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:	–25°C through +55°C (–13°F through +131°F)
Humidity:	90 ~ 95% humidity for 240 hours @ 40°C (104°F)
Vibration:	10 ~ 500Hz 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/s <sup>2</sup> ) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)

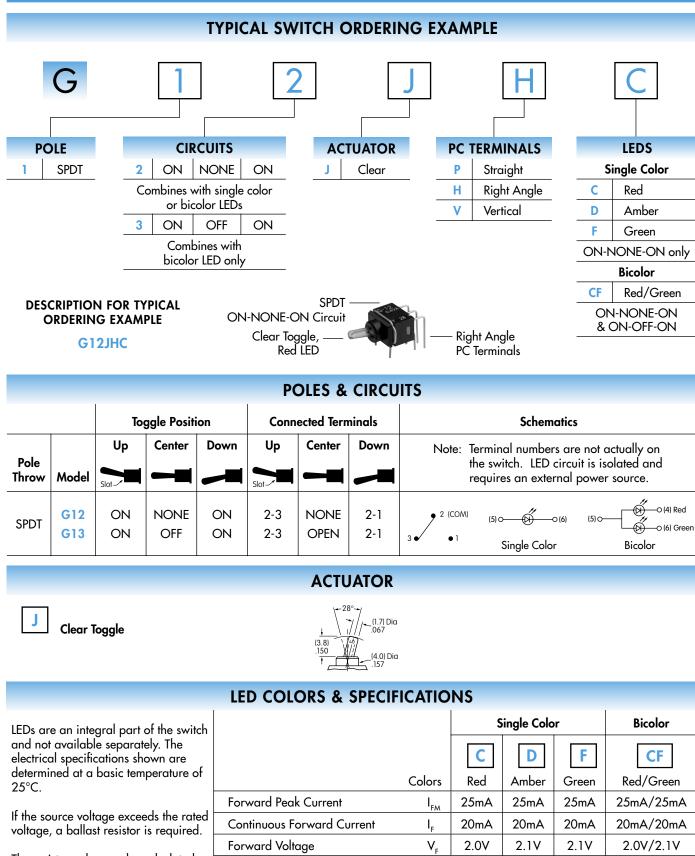
#### **PCB** Processing

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**

UL Recognition or CSA Certification: 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.





4V

 $V_{RM}$ 

ΔI

4V

4V

0.33mA/°C

-25° ~ +55°C

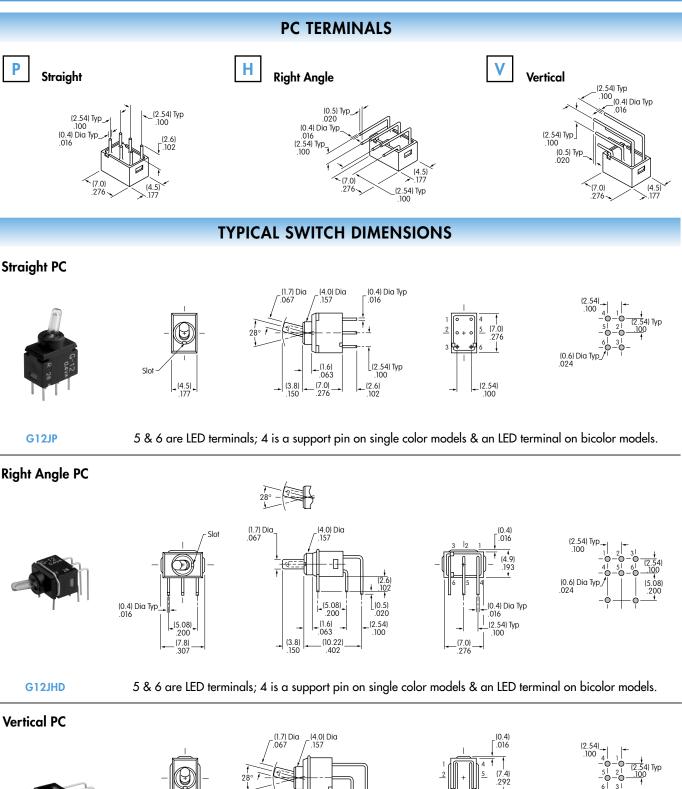
4V/4V

**Reverse Peak Voltage** 

Current Reduction Rate Above 25°C

Ambient Temperature Range





(1.0) .039

(5.08)

(12.76) .502

(1.6) .063 (3.8) .150

Slot

(0.4) Dia Typ .016

G12JVCF

(2.54) .100

+ (5.3) - 209 - (2.6) .102

(0.5) Typ .020

(2.54) Typ .100

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

(5.08)

(0.6) Dia Ty .024

(0.4) Dia Typ .016

\_(2.54) .100

+(4.5) 177 +