



Shan Pu

Illuminated Silent key Switch **SPG1/SPG2**



台灣精品2011
TAIWAN EXCELLENCE

General Specifications

Switch circuit :SPST-NO (dual contact point)
Switch contact rating :100mA @ 12V DC max
LED rating :Limited forward current(IF) at 20mA max
Contact Resistance :100m Ohm (initial)
Insulation Resistance :100M Ohm Min.
Operating Force :200gf ± 50gf
Total Travel : (SPG1)4.5mm±0.50mm (SPG2)3.5mm±0.50mm
Mechanical Life :5,000,000 cycles Min.
Operating Temperature :-25 °C ~ +50°C

Materials

Cover :Polycarbonate (PC)
Cap :Polycarbonate (PC)
Reflector :Polyoxymethylen (POM)
Base-Cap :Polyamide (PA)
Moving contact :Phosphor Bronze with gold plating
Base :Polyamide (PA)
Terminal :Brass with gold plating
Spring :SUS

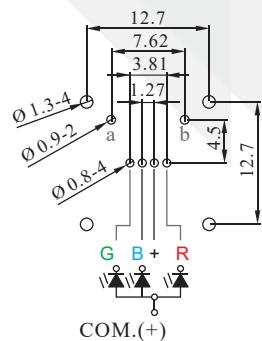
PAT. US8,129,640
PAT. I376716
PAT. ZL 2010 1 0102778.5

PCB layout & Circuit Diagram

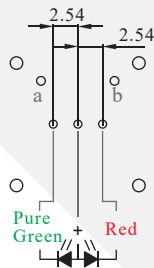
/ Switch



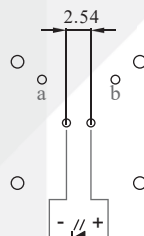
/ RGB LED



/ Dual LED



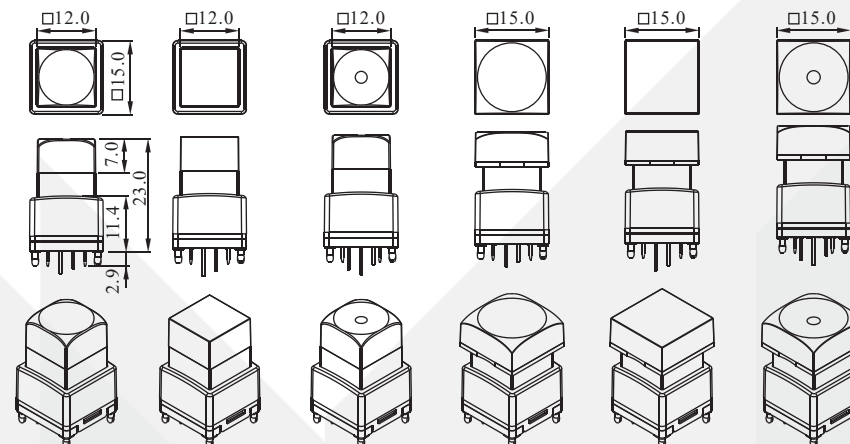
/ Single LED



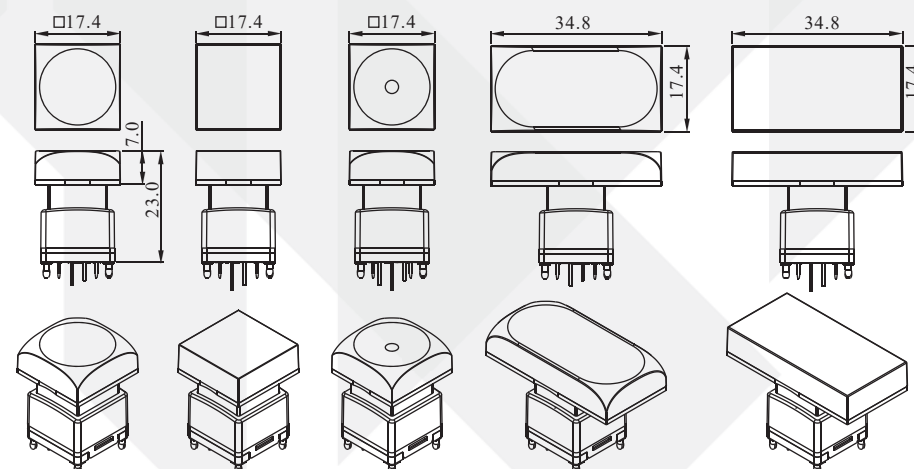
Recommend add resistor to limited each LED forward current at 20mA

Dimension

/ A Cap (VC) / A Cap (FC) / A Cap (SC) / B Cap (VC) / B Cap (FC) / B Cap (SC)



/ C Cap (VC) / C Cap (FC) / C Cap (SC) / D Cap (VC) / D Cap (FC)

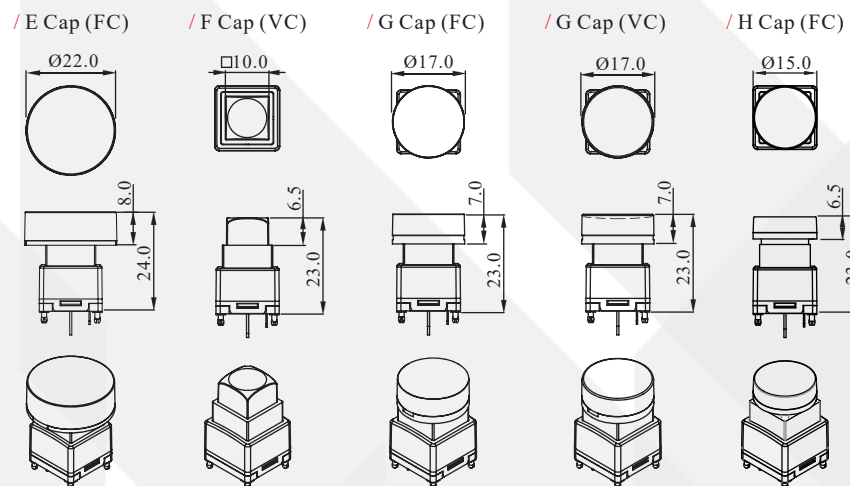




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Dimension



How to Order

SPG

Travel	
1	4.5mm
2	3.5mm

Feeling	
T	Tactile
N	Nontactile

Actuator		
A	□12mm	For cap A
B	□15mm	For cap B
	□17.4mm	For cap C
	34.8*17.4mm	For cap D
	Ø22.0mm	For cap E
	Ø17.0mm	For cap G
C	□10mm	For cap F
	Ø15.0mm	For cap H

LED Color	
5	Pure Green
D	Red/Pure Green
9	RGB Full color

Cap Sizes	
A	□12mm
B	□15mm
C	□17.4mm
D	34.8*17.4mm
E	Ø22.0mm
F	□10mm
G	Ø17.0mm
H	Ø15.0mm

Diffuser Color	
4	White

Cover style	
FC	Flat Clear
VC	Concave Clear
SC	Spot Key Clear

Cap Sizes	Cover style			
		FC	VC	SC
A □12		•	•	•
B □15		•	•	•
C □17.4		•	•	•
D 34.8*17.4		•	•	•
E Ø22.0		•	•	•
F □10		•	•	•
G Ø17.0		•	•	•
H Ø15.0		•	•	•

* "-" Not available

EXAMPLE : SPG1TB5G4FC

