8060 Series Alternate Action and Momentary Pushbutton Switches



Features/Benefits

- Long travel
- Available with LED
- Long life contact design
- Epoxy terminal seal compatabile with bottom wash cleaning
- RoHS compliant models available

Materials

Typical Applications

- Instrumentation
- Computers and peripherals
- Telecommunications and networking equipment



Specifications

Pushbutton

CONTACT RATING: Q contact material: 6 AMPS @ 120 V AC or 28 V DC; 3 AMPS @ 250 V AC. See page A-59 for additional ratings.

ELECTRICAL LIFE: 50,000 make-and-break cycles at full load. CONTACT RESISTANCE: Below 20 m Ω typ. initial @

2-4 V DC, 100 mA, for both silver and gold plated contacts. INSULATION RESISTANCE: $10^{9}\Omega$ min.

DIELECTRIC STRENGTH: 1,000 Vrms min. @ sea level.

OPERATING TEMPERATURE: -30°C to 65°C

SOLDERABILITY: Per MIL-STD-202F method 208D, or EIA RS-186E method 9 (1 hour steam aging).

CAP INSTALLATION FORCE: 10 lbs. maximum permissible.

NOTE: Any models supplied with P, R, S, Q, B or G contact material are RoHS compliant

NOTE: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

CASE: Glass filled nylon 6/6 or diallyl phthalate (DAP), flame retardant (UL 94V-0).

PLUNGER: S, S1, S2 Options: Glass filled nylon or glass filled polyester (PBT) (UL 94V-0). L, L1 Options: Brass, nickel plated.

CAP & FRAME: Nylon, black standard.

BUSHING: Brass or zinc, nickel plated.

HOUSING: Stainless steel.

SWITCH SUPPORT: Brass or steel, matte-tin plated.

END CONTACTS: Q contact material: Coin silver, silver plated. See page A-59 for additional contact materials.

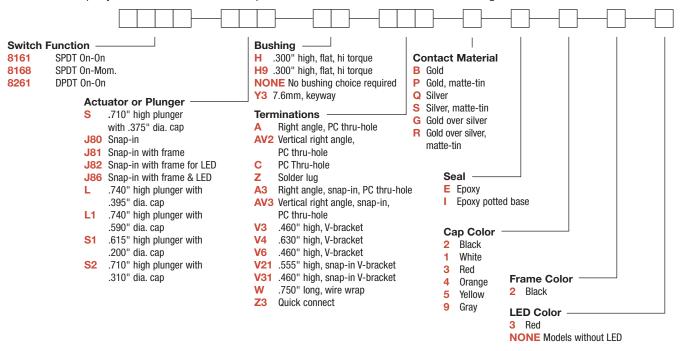
CENTER CONTACT & ALL TERMINALS: Q contact material: Copper alloy, silver plated. See page A-59 for additional contact materials.

TERMINAL SEAL: Epoxy. Refer to soldering and cleaning in Technical Data Chapter.

HARDWARE: Nut & Locking Ring: Brass, nickel plated; Lockwasher: Steel, nickel plated.

Build-A-Switch

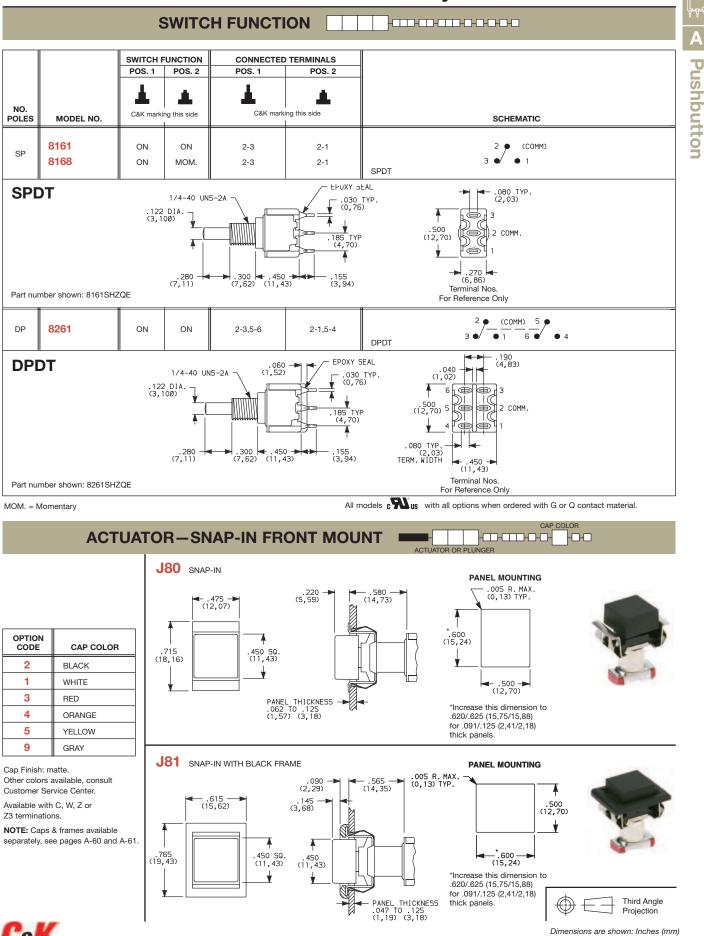
To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages A-53 thru A-61. For additional options not shown in catalog, consult Customer Service Center. All models have epoxy terminal seal and are compatible with all "bottom-wash" PCB cleaning methods.





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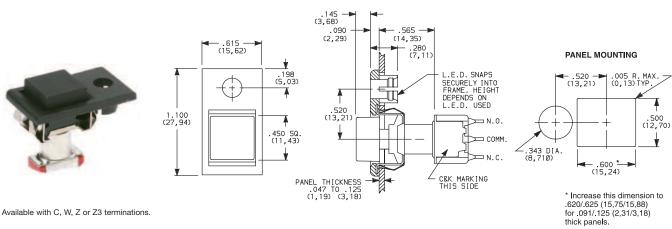
Specifications and dimensions subject to change

8060 Series **Alternate Action and Momentary Pushbutton Switches** ACTUATOR – SNAP-IN FRONT MOUNT 7-0-0 ACTUATOR OR PLU

J82 SNAP-IN WITH BLACK FRAME FOR LED

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Pushbutton >



LED not included. For LED information, see page A-61.

NOTE: Caps & frames available separately, see pages A-60 and A-61.

Other colors available, consult Customer Service Center.

CAP COLOR
BLACK
WHITE
RED
ORANGE
YELLOW
GRAY

ACTUATOR-SNAP-IN FRONT MOUNT

LED COLOR CAP COLOR \mathbf{h} ACTUATOR OR PLUNGER

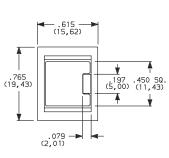
J86 SNAP-IN WITH BLACK FRAME AND LED



NOTE: Caps & frames available

Other colors available, consult

Customer Service Center.



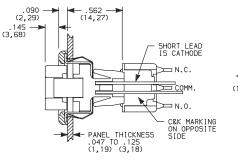
Available with C, W, Z or Z3 terminations and SPDT models only.

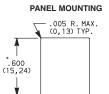
OPTION CODE CAP COLOR separately, see pages A-60 and A-61. 2 BLACK 1 WHITE 3 RED 4 ORANGE 5 YELLOW

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GRAY

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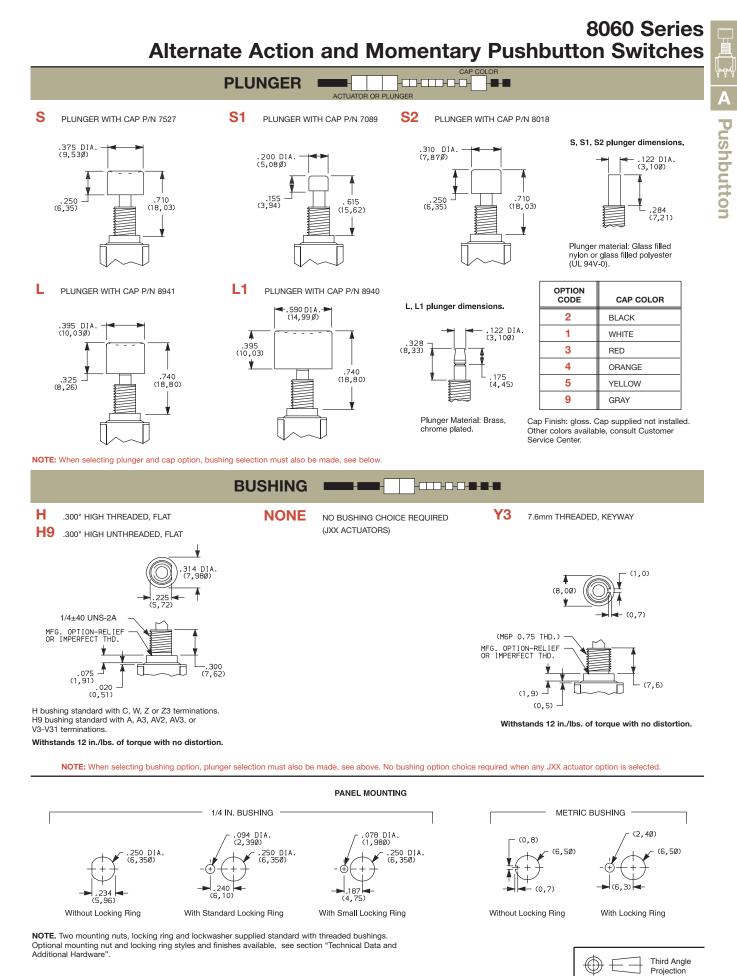
* Increase this dimension to .620/.625 (15,75/15,88) for .091/.125 (2,31/3,18) thick panels.

OPTION CODE	LED COLOR			
3	RED			
For LED information, and page A 61				

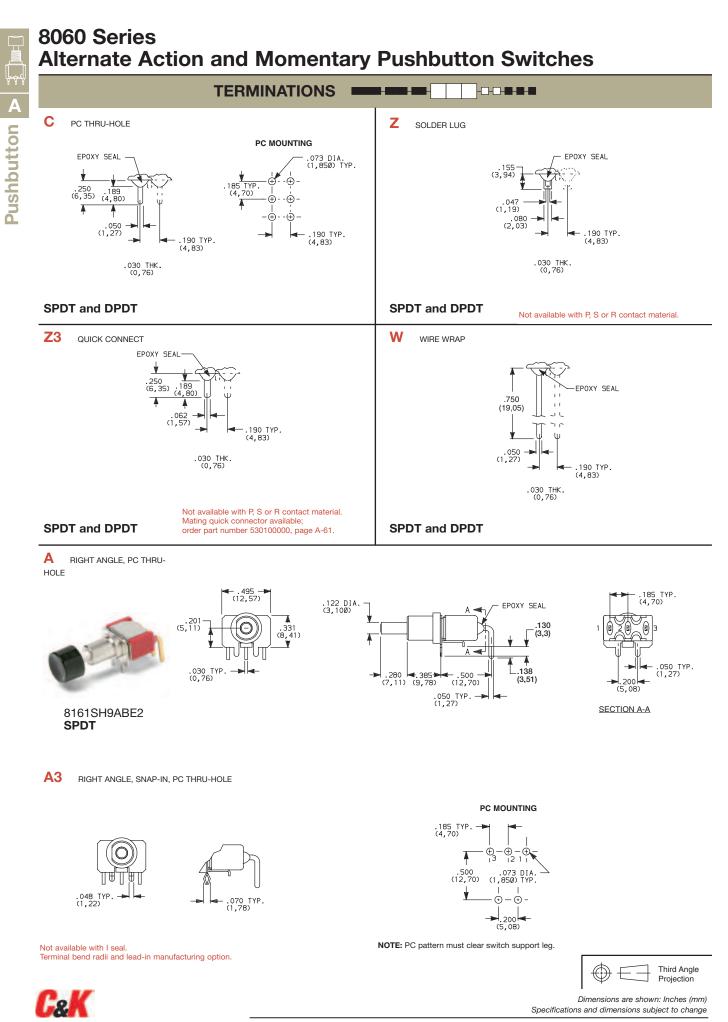
For LED information, see page A-61.

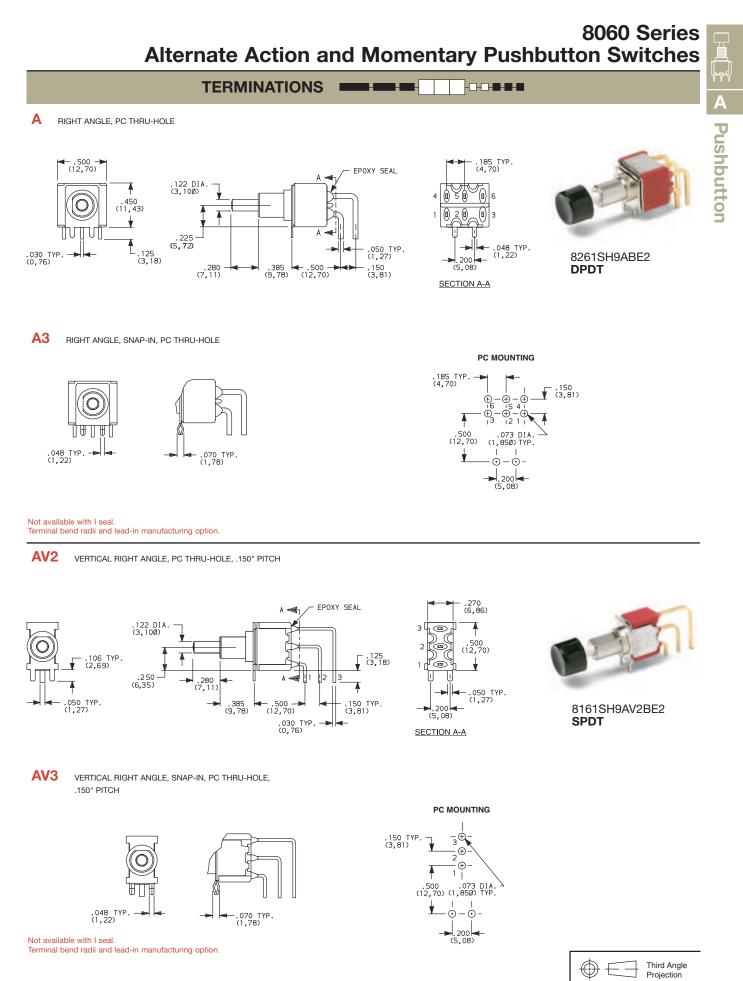
${\oplus} \boxminus$	Third Angle Projection
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Dimensions are shown: Inches (mm) Specifications and dimensions subject to change







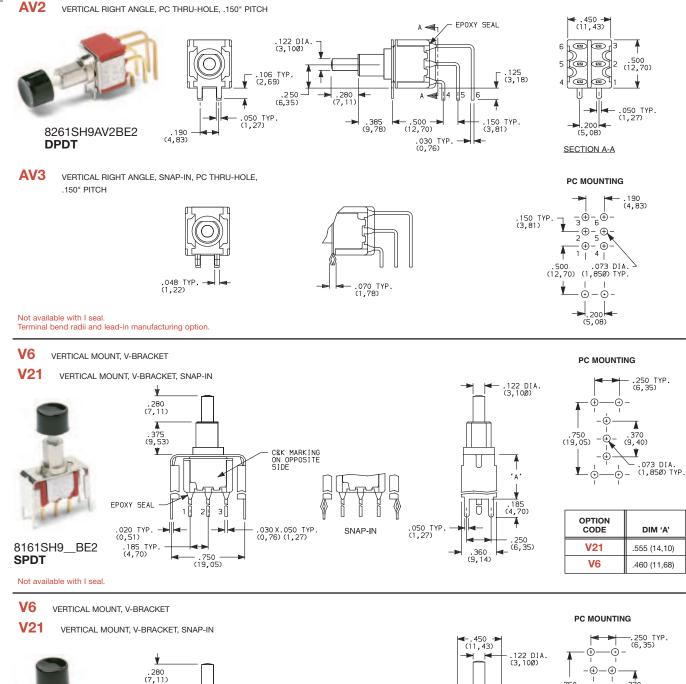




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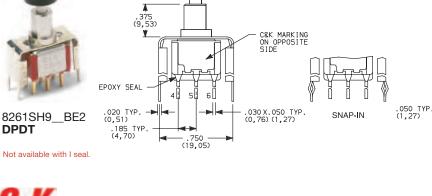
Dimensions are shown: Inches (mm) Specifications and dimensions subject to change www.ck-components.com

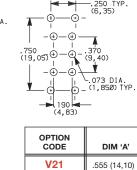
8060 Series **Alternate Action and Momentary Pushbutton Switches** TERMINATIONS ----AV2 VERTICAL RIGHT ANGLE, PC THRU-HOLE, .150" PITCH



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.185 (4,70)

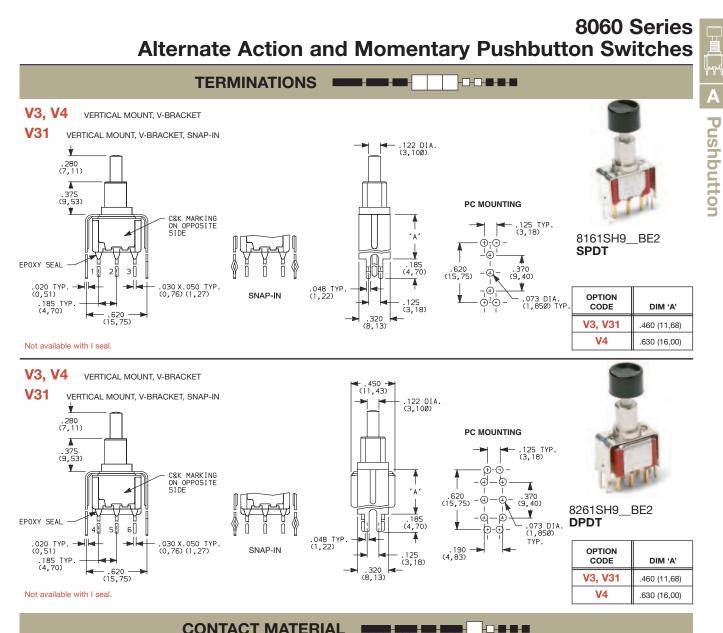
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-.250 (6,35)





Dimensions are shown: Inches (mm) Specifications and dimensions subject to change



CONTACT MATERIAL

OPTION CODE	CONTACT MATERIAL	TERMINAL PLATING	RATINGS		
В	GOLD 1	GOLD 1			
Р	GOED	MATTE-TIN ⁶	LOW LEVEL/DRY CIRCUIT	0.4 VA MAX. @ 20 V AC OR DC MAX.	
Q	011/55.45	SILVER 5		6 AMPS @ 120 V AC OR 28 V DC;	
S	SILVER ^{4,5}	MATTE-TIN 6	POWER	3 AMPS @ 250 V AC.	
G	GOLD OVER	GOLD ³		0.4 VA MAX @ 20 V AC OR DC MAX. OR	
R	SILVER ^{2,3}	MATTE-TIN ⁶	LOW LEVEL/DRY CIRCUIT OR POWER	6 AMPS @ 120 V AC OR 28 V DC; 3 AMPS @ 250 V AC.	

* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

¹ CONTACTS & TERMINALS: Copper alloy, with gold plate over nickel plate.

² END CONTACTS: Coin silver, with gold plate over nickel plate.

³ CENTER CONTACTS & ALL TERMINALS: Copper alloy, with gold plate over nickel plate.

⁴ END CONTACTS: Coin silver, silver plated.

⁵ CENTER CONTACT & ALL TERMINALS: Copper alloy, silver plated.

⁶ TERMINALS: Copper alloy, with matte-tin over nickel plate.

NOTE: Any models supplied with P, S, R,Q, B or G contact material are RoHS compliant.



All models CNUs with all options when ordered with S, R, G, or Q contact material.

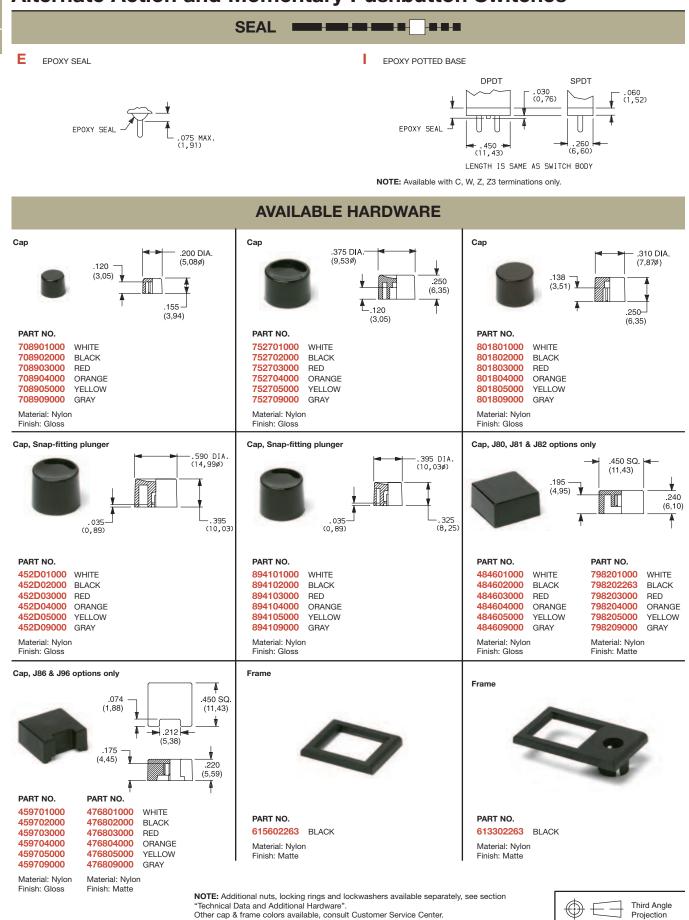
B contact material standard with all terminations except C, Z & Z3. Q contact material standard with C. Z & Z3 terminations.

- P, S & R contact materials not available with Z & Z3 terminations.



Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

8060 Series Alternate Action and Momentary Pushbutton Switches





Pushbutton >

8060 Series **Alternate Action and Momentary Pushbutton Switches**

AVAILABLE HARDWARE

Fits Z3 Termination female connector

PART NO. 530100000 Available in loose pieces.

Panel Inserts

SECUREL



Frames snap into panel opening and are independent from switch mounting. Accurate positioning of the PC mounted switch relative to the panel opening is necessary to provide proper clearance between actuator and frame. Available in two basic styles and four panel thicknesses .047-.125 in. Material: Nylon. Finish: Matte.

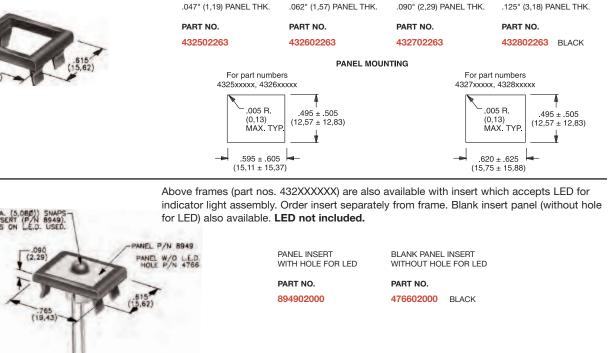


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Pushbutton





LED INFORMATION

SWITCHES WITH LED SUPPLIED: J86 OPTION:

Rectangular LEDs are supplied on 8060 Series pushbutton switches with J86 option. These LEDs are factory installed and are not replaceable. The following specifications apply:

Special colors, custom markings available, consult Customer Service Center.

			TYP.	TYP.	MAX RATINGS AT 25°C AMBIENT TEMPERATURE			Flat denotes	25 SQ
OPTION CODE	COLOR	TYP. INTENSITY	FORWARD VOLTAGE	FORWARD CURRENT	FORWARD VOLTAGE	CONTINUOUS FORWARD CURRENT	POWER DISSIPATION	cathode 2 DIA	
6	Green	1.0 mcd		20 mA		50 mA	125 mW		
3	Red*	0.5 mcd	2.1 V	10 mA	2.5 V	30 mA	75 mW	2 DIA – 🗖 🖬	.030- - (0,76)
5	Yellow	4.0 mcd		20 mA		50 mA	125 mW		4 5 195

Process Information: Soldering to LED leads must be completed within 5 seconds at 500°F (260°C) maximum.

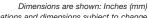
Caution: Circuit elements must limit forward current of LED to 50mA max. continuous.

* Extra-bright red LED available (typ. intensity 4.5 mcd), consult Customer Service Center.

LEDs are not supplied with J82 & J84 options. LED snaps into switch frame surrounding actuator and is wired externally.



Suggested LED for J82 & J84 options Dimensions for reference only





Specifications and dimensions subject to change