

# LED VOLTAGE/CURRENT RATINGS TABLE

## ILLUMINATED PUSHBUTTON SWITCH & INDICATOR LIGHTS VOLTAGE/CURRENT RATINGS TABLES

### LP3, LP5 AND LPL SERIES

#### LIGHTING VOLTAGE/CURRENT COMPONENTS RATINGS

LIGHT SOURCE VOLTAGE CATEGORY	LED COLOR	FORWARD CURRENT	TYP. FORWARD VOLTAGE (DC)	MAX. FORWARD VOLTAGE (DC)
2V*	RED	20mA	1.9V	2.5V
	GREEN	20mA	2.2V	2.6V
	AMBER			
	BLUE	20mA	3.3V	4V
	DEEP GREEN			
6V	ALL COLORS	20mA	6V	8V
12V	ALL COLORS	20mA	12V	14.5V
24V	ALL COLORS	20mA	24V	28.6V

### LP3S

#### LIGHTING VOLTAGE/CURRENT COMPONENTS RATINGS

LIGHT SOURCE VOLTAGE CATEGORY	LED COLOR	FORWARD CURRENT	TYP. FORWARD VOLTAGE (DC)	MAX. FORWARD VOLTAGE (DC)
2V*	RED	20mA	2V	2.5V
	GREEN			
	AMBER			
	BLUE	20mA	3.2V	4V
	DEEP GREEN			
	WHITE			
12V	ALL COLORS	20mA	12V	14V
24V	ALL COLORS	20mA	24V	28.6V

### LP3-V and LP5-V VANDAL RESISTANT SERIES

#### LIGHTING VOLTAGE/CURRENT COMPONENTS RATINGS

LIGHT SOURCE VOLTAGE CATEGORY	LED COLOR	FORWARD CURRENT	MAX. FORWARD CURRENT	TYP. FORWARD VOLTAGE (DC)	MAX. FORWARD VOLTAGE (DC)
2V*	RED	20mA	30mA	2V	2.5V
	GREEN				
	AMBER				
	BLUE	20mA	30mA	3.2V	4V
	DEEP GREEN				
	WHITE				
6V	ALL COLORS	20mA	30mA	6V	8V
12V	ALL COLORS	20mA	30mA	12V	14V
24V	ALL COLORS	20mA	30mA	24V	28.6V

### LP7-D and LP9 SERIES

#### LIGHTING VOLTAGE/CURRENT COMPONENTS RATINGS

LIGHT SOURCE VOLTAGE CATEGORY	LED COLOR, WAVELENGTH (nm)	FORWARD CURRENT	TYP. FORWARD VOLTAGE	MAX. FORWARD VOLTAGE
2V LIGHTPIPE STYLE*	RED (631)	20mA	2V	2.4V
	GREEN (525)	20mA	3.2V	3.6V
	AMBER (591)	20mA	2.1V	2.4V
	BLUE (470)	20mA	3.3V	3.8V
	WHITE	5mA	2.9V	3.15V
2V, TRANSLUCENT FULLY ILLUMINATED STYLE*	RED (630)	20mA	1.95V	2.5V
	GREEN (525)	20mA	3.3V	4.1V
	AMBER (601)	20mA	2.1V	2.5V
	BLUE (465)	20mA	3.3V	4V
	WHITE	5mA	2.85V	3.1V
12V ALL PRODUCTS	ALL COLORS, SAME AS 2V	(20mA)	12V	14V

### LP9L SERIES

#### LIGHTING VOLTAGE/CURRENT COMPONENTS RATINGS

LIGHT SOURCE VOLTAGE CATEGORY	LED COLOR, WAVELENGTH (nm)	FORWARD CURRENT	TYP. FORWARD VOLTAGE	MAX. FORWARD VOLTAGE
2V	RED (631)	20mA	2V	2.4V
	GREEN (525)	20mA	3.2V	3.6V
	AMBER (591)	20mA	2.1V	2.4V
	BLUE (470)	20mA	3.3V	3.8V
	WHITE	5mA	2.9V	3.15V
12V	ALL COLORS, SAME AS 2V	(20mA)	12V	14V

\*Intended for use with external resistor. The "2 volt" switches are intended to have a resistor added in series into the lighting circuit by the customer. To determine the approximate value of the resistor, use the equation below:

$$\text{RESISTOR SIZE} = \frac{\text{POWER SUPPLY VOLTAGE} - \text{LED FORWARD VOLTAGE}}{\text{LED FORWARD CURRENT}}$$