

- For Detailed LED Data, See Discrete Section, MODEL 200

**1** Model<sup>[1]</sup>

BP202 <sup>[5]</sup>	Bi-Pin
MB200	Bayonet
MF200 <sup>[6]</sup>	Flange
MG200	Groove
MS200	Screw
WB201	Wedge

TO ORDER, FOLLOW THE EXAMPLE:

Select one BOLD component from each SHADED column in the tables below.

<b>1</b> Model	<b>2</b> LED	<b>3</b> Voltage
WB201	-BCG	12H

→ Part Number WB201-BCG12H

**2** MEDIUM INTENSITY - TINTED ENCAPSULATION

LED	Color	λpk (nm)	Iv <sup>[2]</sup> (mcd)	Viewing Angle	V/C Table <sup>[3]</sup>
-BCR	RED	635	120	35	I
-BCA	AMB	583	100	35	I
-BCG	GRN	565	80	24	I

Voltage/Current

Design Vf/If	Max Vf/If
<b>V/C Table I</b>	
5V/22mA	5.5V/28mA
6V/21mA	7V/27mA
12V/20mA	14V/25mA
15V/24mA	16.5V/28mA
24V/17mA	26V/20mA
28V/16.5mA	30V/18mA

**3** Voltage<sup>[4]</sup>

2
5H
6H
12H
15H
24H
28H

HIGH INTENSITY- WATERCLEAR ENCAPSULATION

LED	Color	λpk (nm)	Iv <sup>[2]</sup> (mcd)	Viewing Angle	V/C Table <sup>[3]</sup>
-NWR	RED	634	2800	30	I
-NWO	ORG	605	2000	30	I
-NWA	AMB	592	2800	30	I
-NWG	GRN	520	2400	45	II
-NWB	BLU	465	700	45	II
-NWW	WHT		1560	50	II
-NKR	RED	634	3600	15	I
-NKO	ORG	605	8000	15	I
-NKA	AMB	592	3600	15	I
-NKG	GRN	520	10000	15	II
-NKB	BLU	465	3000	15	II
-NKW	WHT		5600	20	II

Voltage/Current

Design Vf/If	Max Vf/If
<b>V/C Table II</b>	
5V/15mA	5.5V/23mA
6V/15mA	7V/25mA
12V/15mA	14V/20mA
15V/15mA	16.5V/18mA
24V/15mA	26V/18mA
28V/15mA	30V/17mA

WIDE ANGLE/FLAT-TOPPED-WATERCLEAR ENCAPSULATION

LED	Color	λpk (nm)	Iv <sup>[2]</sup> (mcd)	Viewing Angle	V/C Table <sup>[3]</sup>
-NFR	RED	634	780	75	I
-NFA	AMB	592	600	75	I
-NFG	GRN	520	780	75	II
-NFB	BLU	465	168	75	II
-NFW	WHT		280	75	II

SPECIALTY LEDs

LED	Color	λpk (nm)	Iv <sup>[2]</sup> (mcd)	Viewing Angle	V/C Table <sup>[3]</sup>	Description
-RLP <sup>[7]</sup>	RED	635	2.3	50	[3]	Low Power
-ALP <sup>[7]</sup>	AMB	583	2.1	50	[3]	Low Power
-GLP <sup>[7]</sup>	GRN	565	2.3	50	[3]	Low Power
-LRG	RED/GRN	660/565	90/40	60	I	Bi-Color, Red Cathode

[1] All Models are center anode (note cathode notch for BP202, BP203 and WB201). Insert C after Model for center cathode (e.g. MF200C).

[2] Iv = typical luminous intensity @ If = 20mA (Ta=25°C). Low Power LEDs = 2mA.

[3] See Voltage/Current table for design specifications. Design current for low power LEDs = 2mA.

[4] Ta = 25°C. Voltage 2 indicates external resistor required. Voltages 5H through 28H are VDC.

For AC operation, insert D after Voltage (e.g. 24HD). D indicates built-in rectifier; not required for 5H.

[5] Optional Socket available. See Model BPS-1 (pg. 72).

[6] Optional Socket available. See Model MFS1-B (pg. 74).

[7] Omit "H" Voltage designation (e.g. MG200-RLP12).

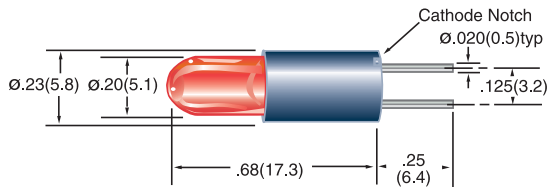
Continued...

# T-1 3/4 SUB-MINIATURE LAMP

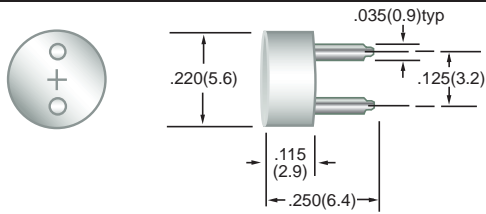
## Single-Chip

- For Detailed LED Data, See Discrete Section, MODEL 200

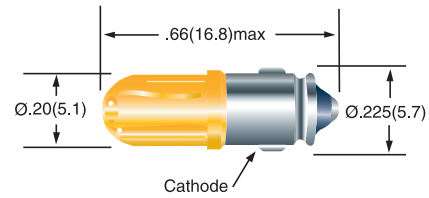
### BP202



### BPS-1 (Socket for BP202 Lamp)

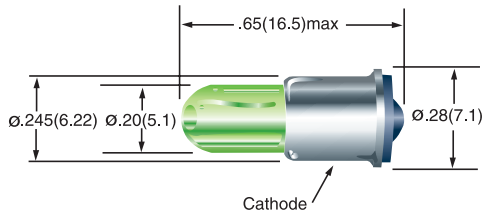


### MB200



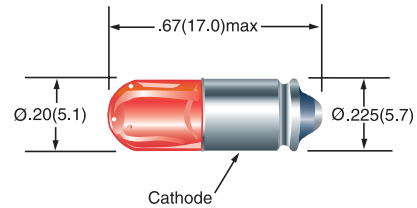
Available with Center Cathode

### MF200



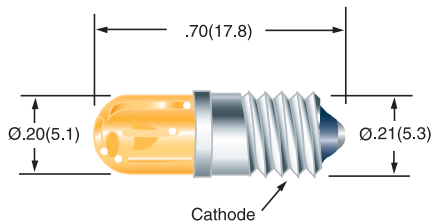
Available with Center Cathode

### MG200



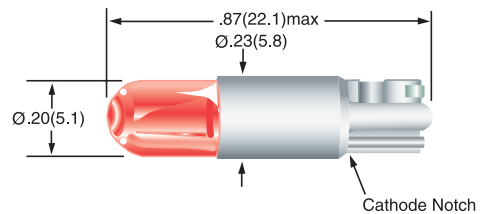
Available with Center Cathode

### MS200



Available with Center Cathode

### WB201



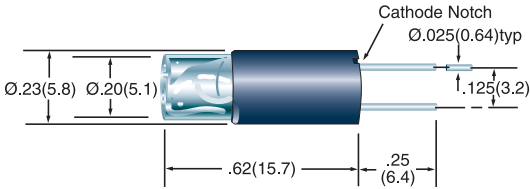
### All dimensions are in inches (mm)

Tolerances: .xx"(x) ±.025"(.63) / .xxx"(xx)±.010"(.25)

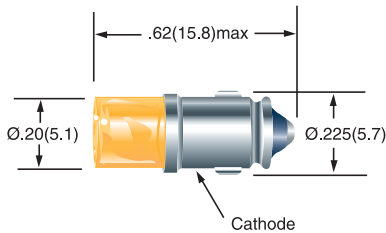
Specifications are subject to change without notice.

## Wide Angle LED Lamps

### BP202, NFX Series (75°)

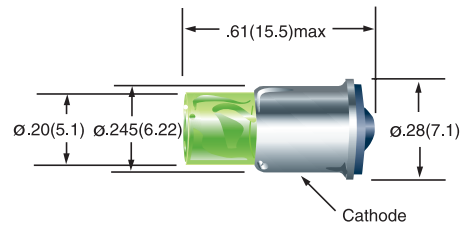


### MB200, NFX Series (75°)



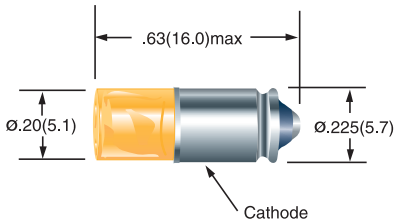
Available with Center Cathode

### MF200, NFX Series (75°)



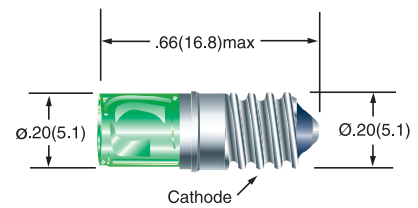
Available with Center Cathode

### MG200, NFX Series (75°)



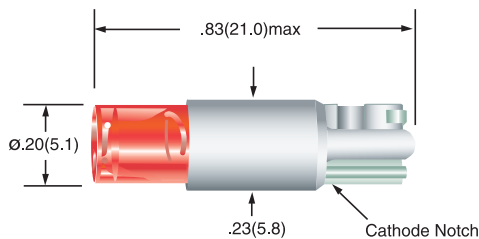
Available with Center Cathode

### MS200, NFX Series (75°)



Available with Center Cathode

### WB201, NFX Series (75°)



All dimensions are in inches (mm)

Tolerances: .xx"(x) ±.025"(.63) / .xxx"(xx)±.010"(.25)

Specifications are subject to change without notice.