



Data Display Products®

T-1³/₄ SUB-MINIATURE LAMP

Single-Chip

- Bi-Pin, Bayonet, Flange, Groove, Screw, Wedge Bases
- For Detailed LED Data, See Discrete Section, MODEL 200

Model ^[1]		LED						Voltage ^[5]
		Color	λ_{pk} (nm)	I_v ^[2] (mcd)	Tint ^[3]	Viewing Angle(°)	V_f ^[4]	
BP202^[6]	Bi-Pin	-ER	RED	660	30	D	44	2
MB200	Bayonet	-ECR	RED	660	160	C	30	5H
MF200^[7]	Flange	-BR	RED	635	14	D	60	12H
MG200	Groove	-BCR	RED	635	120	C	35	15H
MS200	Screw	-NWR	RED	635	900	W	30	24H
WB200	Wedge	-NWO	ORG	609	1,300	W	30	28H
		-EA	ORG	605	24	D	44	
		-ECA	ORG	605	90	C	30	
		-NWA	AMB	592	1,300	W	30	
		-BA	AMB	583	16	D	60	
		-BCA	AMB	583	100	C	35	
		-EAY	AMB	580	24	D	44	
		-ECAY	AMB	580	90	C	30	
		-EY	YEL	570	45	D	44	
		-ECY	YEL	570	160	C	30	
		-BG	GRN	565	10	D	60	
		-BCG	GRN	565	140	C	24	
		-EG	GRN	555	12	D	44	
		-ECG	GRN	555	80	C	30	
		-NWG	GRN	520	1,200	W	45	
		-NWB	BLU	465	325	W	45	
Specialty LEDs								Description
		-FR6K	RED	635	300	W	90	Wide Angle
		-FO8K	ORG	609	450	W	90	Wide Angle
		-FA9K	AMB	592	325	W	90	Wide Angle
		-FG5K	GRN	520	300	W	90	Wide Angle
		-FB1K	BLU	465	125	W	90	Wide Angle
		-RLP^[8]	RED	635	2.3	D	50	Low Power
		-ALP^[8]	AMB	583	2.1	D	50	Low Power
		-GLP^[8]	GRN	565	2.3	D	50	Low Power
		-LRG	R/G	660/565	70/32	D	80	Bi-Color, Green Cathode

Voltage/Current	
Design V _f /I _f	Max V _f /I _f
Table I	
5V/27mA	5.5V/40mA
12V/27mA	14V/35mA
15V/24mA	16.5V/28mA
24V/17mA	26V/20mA
28V/16.5mA	30V/18mA

Table II	
5V/15mA	6V/26mA
12V/15mA	14V/20mA
15V/15mA	16.5V/18mA
24V/15mA	26V/18mA
28V/15mA	30V/17mA

- [1] All Models are center anode (note cathode notch for BP202, BP203 and WB200). Insert C after Model for center cathode (e.g. MF200C).
- [2] I_v = typical luminous intensity @ I_f = 20mA (T_a = 25°C). Low Power LEDs = 2mA.
- [3] D = Diffused, C = Clear Tinted, W = Water Clear.
- [4] See Voltage/Current table for design specifications. Design current for low power LEDs = 2mA.
- [5] T_a = 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 15VAC or less.
- [6] Optional Socket available. See Model BPS-1 (pg. 83).
- [7] Optional Socket available. See Model MFS1-B (pg. 87).
- [8] Omit "H" Voltage designation (e.g. MG200-RLP12).

To Order:
Example:

Select one **BOLD** component from each SHADED column in the table.
Part Number WB200-ECG12H:

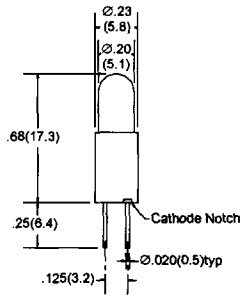
Model	LED	Voltage
WB200	-ECG	12H



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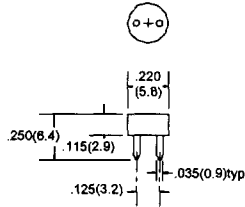
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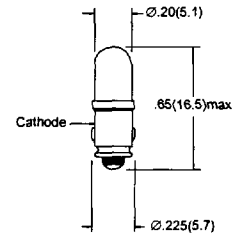
BP202 Mates With BPS-1 Socket

BP202



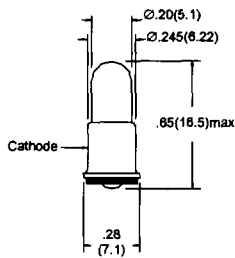
BPS-1 Socket Mates With BP202

BPS-1



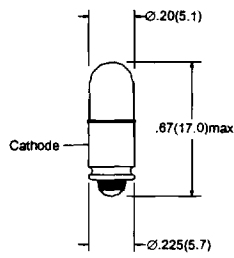
Available with Center Cathode

MB200



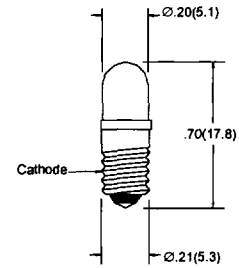
Available With Center Cathode

MF200



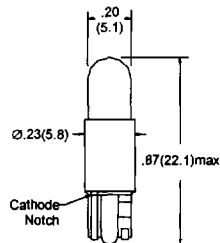
Available with Center Cathode

MG200

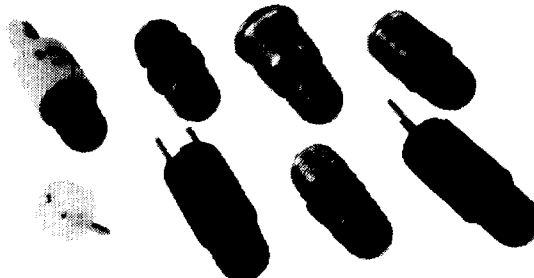


Available with Center Cathode

MS200



WB200



Continued...

All dimensions are in inches(mm)
Tolerances: .xx"(.x) ±.025"(.63) / .xxx"(.xx) ±.010"(.25)
Specifications are subject to change without notice.

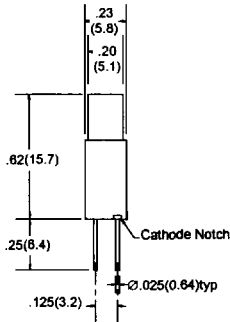


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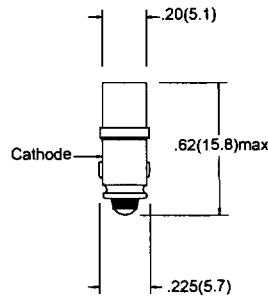
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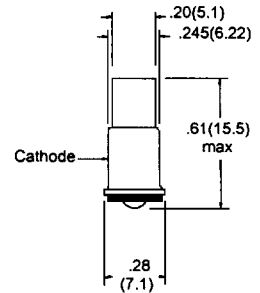
Wide Angle LED Lamps



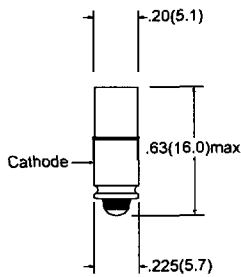
BP202, F Series (90°)



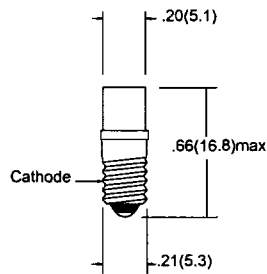
Available With Center Cathode
MB200, F Series (90°)



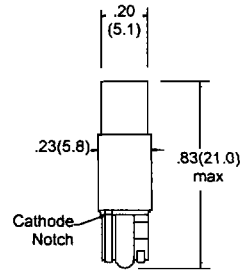
Available With Center Cathode
MF200, F Series (90°)



Available With Center Cathode
MG200, F Series (90°)



Available With Center Cathode
MS200, F Series (90°)

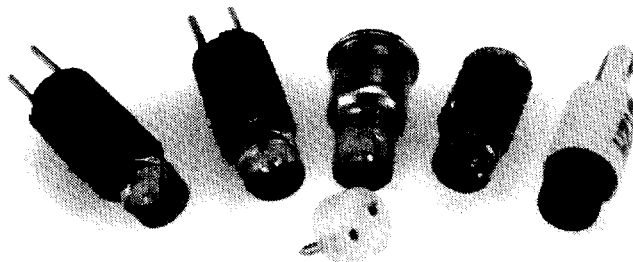


WB200, F Series (90°)

Example:

Part Number MF200-FR6K28H:

Model	LED	Voltage
MF200	-FR6K	28H



All dimensions are in inches(mm)
Tolerances: .xx"(.x) ±.025"(.63) / .xxx"(.xx) ±.010"(.25)
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