



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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

1 Model	
2SB	ANSI No. 2
5SB	ANSI No. 5
55SB	T5.5

TO ORDER, FOLLOW THE EXAMPLE:

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

1 Model	2 LED	3 Voltage
2SB	-BCG	12H

→ Part Number **2SB-BCG12H**

2 MEDIUM INTENSITY - TINTED ENCAPSULATION					
LED	Color	λ _{pk} (nm)	I _v ^[1] (mcd)	Viewing Angle	V/C Table ^[2]
-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
V/C Table I	
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
48V/15mA	50V/16mA
60V/9mA	65V/10mA
120VAC/3.5mA	130VAC/4mA

3 Voltage ^[3]	
2	
5H	
6H	
12H	
15H	
24H	
28H	
48H	
60H	
120 ^[4]	

HIGH INTENSITY - WATERCLEAR ENCAPSULATION					
LED	Color	λ _{pk} (nm)	I _v ^[1] (mcd)	Viewing Angle	V/C Table ^[2]
-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	CWHT		2500	50	II
-NWL	WWHT		1800	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	CWHT		9200	20	II
-NKL	WWHT		9200	15	II

Voltage/Current	
Design Vf/If	Max Vf/If
V/C Table II	
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
48V/9.5mA	50V/10mA
60V/9mA	65V/10mA
120VAC/3.5mA	130VAC/4mA

WIDE ANGLE/FLAT-TOPPED-WATERCLEAR ENCAPSULATION					
LED	Color	λ _{pk} (nm)	I _v ^[1] (mcd)	Viewing Angle	V/C Table ^[2]
-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	CWHT		280	75	II

SPECIALTY LEDs						
LED	Color	λ _{pk} (nm)	I _v ^[1] (mcd)	Viewing Angle	V/C Table ^[2]	Description
-RLP ^[5]	RED	635	2.3	50	[2]	Low Power
-ALP ^[5]	AMB	583	2.1	50	[2]	Low Power
-GLP ^[5]	GRN	565	2.3	50	[2]	Low Power
-LRG	RED/GRN	660/565	90/40	60	I	Bi-Color

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

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

[3] Ta = 25°C. Voltage "2" indicates external resistor required. Voltages 5H through 60H are VDC. For AC operation, insert D after the Voltage (e.g. 24HD). D indicates built-in rectifier; not required for 5H or 120VAC. 120VDC operation not available.

[4] Select high intensity LEDs only.

[5] Omit "H" Voltage designation (e.g. 2SB-RLP12).

Continued...

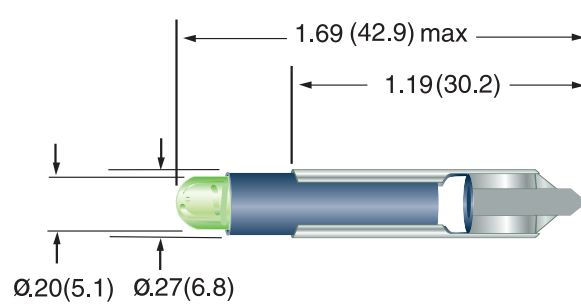
T-2 SLIDE BASED LAMP

Single-Chip

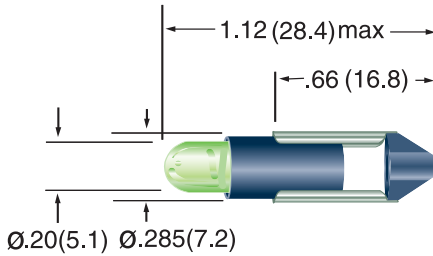
- For Detailed LED Data, See Discrete Section, MODEL 200.



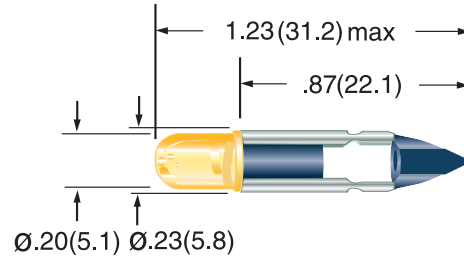
2SB



5SB



55SB

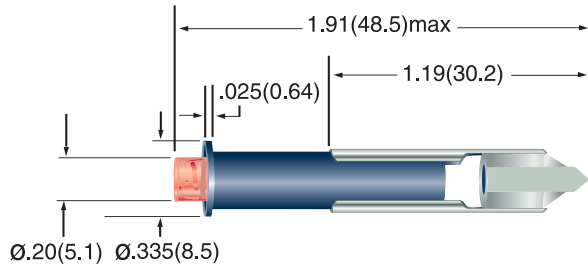


All dimensions are in inches (mm)

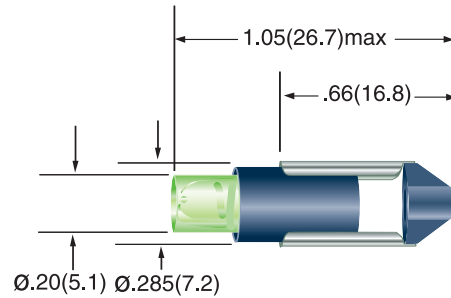
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Specifications are subject to change without notice.

Wide Angle LED Lamps

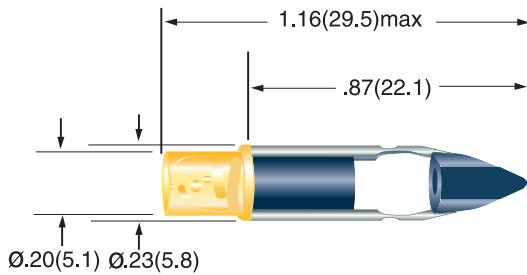
2SB, NFX Series (75°)



5SB, NFX Series (75°)



55SB, 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.