



Energy Efficient Direct Incandescent Replacement 470nm Super Blue Based LED Lamps



Features

- Maintenance Free, Easy Installation
- Direct Mount in Industry Standard Sockets Without Modification
- Solid-State, High Shock/Vibration Resistant
- Built-in Current Limiting Resistors
- Long Life 100,000+ hrs (10 Years)

Options

- Low Power, High Intensity
- Major Power Savings
- Major Reduction in Heat Generation
- Wide Angle 120° Illumination
- Indium Gallium Nitride (InGaN)
- 430nm Ultra Blue Available
- Special Voltages
- High Power Multichip Configurations
- Narrow Beam (20°) Illumination
- Red, Amber, Yellow, Green, White, IR

Subminiature Packages	Replaces Incandescent	Part Number	Electrical-Optical Characteristics (Ta = 25°C)				Angle of Illumination	Special Features
			Voltage V typ	Current mA typ	Intensity Ft.Cd	Intensity mcd		
 F121 Ceramic Base FF120	EXT. RES. REQD	FF120CB1K-3.5Vf-P	3.5Vf	15	16	60	120°	Center Contact Polarity P = Positive N = Negative Replace FF120 With F120 Std. (15°) Beam Intensity 1.5K mcd/32 Ft.Cd @ 15 mA
	682,685,714,718	FF120CB1K-5V-P	5V	15	16	60		
	7241	FF120CB1K-18V-P	18V	15	16	60		
	6839	FF120CB1K-24V-P	24V	10	11	45		
	6839	FF120CB1K-28V-P	28V	10	11	45		
 BP121 Ceramic Base BPF120	EXT. RES. REQD	BPF120CB1K-3.5Vf	3.5Vf	15	16	60	120°	Replace BPF120 With BP120 Std (15°) Beam Intensity 1.5K mcd/32 Ft.Cd @ 15 mA
	7265,7680,7714	BPF120CB1K-5V	5V	15	16	60		
		BPF120CB1K-14V	12/14V	15	16	60		
	7839	BPF120CB1K-24V	24V	10	11	45		
	7839	BPF120CB1K-28V	28V	10	11	45		
 WF150	EXT. RES. REQD	WF150CB1K-3.5Vf	3.5Vf	15	30	125	120°	Replace WF150 With W150 Std. Beam (15°) Intensity 2K mcd/60 Ft.Cd @ 15 mA
	56,79,84,86	WF150CB1K-5V	5V	15	30	125		
	18,37,73,74	WF150CB1K-14V	12/14V	15	30	125		
	17, 85	WF150CB1K-24V	24V	15	30	125		
	17, 85	WF150CB1K-28V	28V	15	30	125		
 WF200	EXT. RES. REQD	WF200CB1K-3.5Vf	3.5Vf	15	30	125	120°	Replace WF200 With W200 Std. Beam (15°) Intensity 2K mcd/60 Ft.Cd @ 15 mA
	56,79,84,86	WF200CB1K-5V	5V	15	30	125		
	18,37,73,74	WF200CB1K-14V	12/14V	15	30	125		
	17, 85	WF200CB1K-24V	24V	15	30	125		
	17, 85	WF200CB1K-28V	28V	15	30	125		
 FF200	EXT. RES. REQD	FF200CB1K-3.5Vf-P	3.5Vf	15	30	125	120°	Center Contact Polarity BP = BiPolar P = Pos N = Neg Replace FF200 With F200 Std. (15°) Beam Intensity 2K mcd/60 Ft.Cd
	328,345,350	FF200CB1K-5V-P	5V	15	30	125		
	330,382,394	FF200CB1K-14V-P	12/14V	15	30	125		
	327,376,387	FF200CB1K-24V-P	24V	15	30	125		
	327,376,387	FF200CB1K-28V-P	28V	15	30	125		
 GF200	EXT. RES. REQD	GF200CB1K-3.5Vf-P	3.5Vf	15	30	125	120°	Center Contact Polarity BP = BiPolar P = Pos N = Neg Replace GF200 With G200 Std. (15°) Beam Intensity 2K mcd/60 Ft.Cd
	337,379,398	GF200CB1K-5V-P	5V	15	30	125		
	386	GF200CB1K-14V-P	12/14V	15	30	125		
	334,388	GF200CB1K-24V-P	24V	15	30	125		
	334,388	GF200CB1K-28V-P	28V	15	30	125		
 SF200	EXT. RES. REQD	SF200CB1K-3.5Vf-P	3.5Vf	15	30	125	120°	Center Contact Polarity P = Positive N = Negative Replace SF200 With S200 Std. (15°) Beam Intensity 2K mcd/60 Ft.Cd
	378,1768,1775	SF200CB1K-5V-P	5V	15	30	125		
	336,383	SF200CB1K-14V-P	12/14V	15	30	125		
	342	SF200CB1K-24V-P	24V	15	30	125		
	335,342,369,399	SF200CB1K-28V-P	28V	15	30	125		
 BPF200	7328	BPF200CB1K-5V	5V	15	30	125	120°	Replace BPF200 With BP200 Std. (15°) Beam Intensity 2K mcd/60 Ft.Cd
	7371	BPF200CB1K-12V	12V	15	30	125		
	7330,7382	BPF200CB1K-14V	12/14V	15	30	125		
	7327,7387	BPF200CB1K-24V	24V	15	30	125		
	7327,7387	BPF200CB1K-28V	28V	15	30	125		

All dimensions in inches. For millimeters multiply by 25.4

Caution: The Blue LED is sensitive to static electricity. Handle it with care. Damage occurs to the Blue LED if a voltage exceeding the specified absolute maximum is applied.

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