



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

- 633nm InGa SP Red Available
- Special Voltages
- High Power Multichip Configurations
- Narrow Beam (20°) Illumination
- Amber, Yellow, Green, Blue, 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		
T1 (3mm) Sub-Midget Flange 	EXT. RES. REQD	FF120CR3K-2Vf-P	1.9Vf	20	20	100	120°	Center Contact Polarity P = Positive N = Negative Replace FF120 With F120 Medium (50°) Beam Intensity 180 mcd/30 Ft.Cd
	682,685,714,718	FF120CR3K-5V-P	5V	20	20	100		
	7241	FF120CR3K-18V-P	18V	15	14	50		
	6839	FF120CR3K-24V-P	24V	12	9	33		
	6839	FF120CR3K-28V-P	28V	12	9	33		
T1 (3mm) Sub-Midget Bi-Pin 	EXT. RES. REQD	BPF120CR3K-2Vf	1.9Vf	20	20	100	120°	Replace BPF120 With BP120 Medium (50°) Beam Intensity 180 mcd/30 Ft.Cd @20 mA
	7265,7680,7714	BPF120CR3K-5V	5V	20	20	100		
		BPF120CR3K-14V	12/14V	15	14	50		
	7839	BPF120CR3K-24V	24V	12	9	33		
	7839	BPF120CR3K-28V	28V	12	9	33		
T1-1/2 (4.5mm) Midget Wedge 	EXT. RES. REQD	WF150CR3K-2Vf	1.9Vf	20	34	115	120°	Replace WF150 With W150 Narrow Beam (15°) Intensity 1.6K mcd/52 Ft.Cd @20 mA
	56,79,84,86	WF150CR3K-5V	5V	20	34	115		
	18,37,73,74	WF150CR3K-14V	12/14V	20	34	115		
	17, 85	WF150CR3K-24V	24V	15	26	85		
	17, 85	WF150CR3K-28V	28V	15	26	85		
T1-3/4 (5mm) Midget Wedge 	EXT. RES. REQD	WF200CR3K-2Vf	1.9Vf	20	34	115	120°	Replace WF200 With W200 Narrow Beam (15°) Intensity 1.6K mcd/52 Ft.Cd @20 mA
	56,79,84,86	WF200CR3K-5V	5V	20	34	115		
	18,37,73,74	WF200CR3K-14V	12/14V	20	34	115		
	17, 85	WF200CR3K-24V	24V	15	26	85		
	17, 85	WF200CR3K-28V	28V	15	26	85		
T1-3/4 (5mm) Midget Flange 	EXT. RES. REQD	FF200CR3K-2Vf-P	1.9Vf	20	34	115	120°	Center Contact Polarity BP = BiPolar AC/DC P = Positive N = Negative Replace FF200 With F200 Narrow Beam (15°) Intensity 1.6K mcd/52 Ft.Cd @20 mA
	328,345,350	FF200CR3K-5V-P	5V	20	34	115		
	330,382,394	FF200CR3K-14V-P	12/14V	20	34	115		
	327,376,387	FF200CR3K-24V-P	24V	15	26	85		
	327,376,387	FF200CR3K-28V-P	28V	15	26	85		
T1-3/4 (5mm) Midget Groove 	EXT. RES. REQD	GF200CR3K-2Vf-P	1.9Vf	20	34	115	120°	Center Contact Polarity BP = BiPolar AC/DC P = Positive N = Negative Replace GF200 With G200 Narrow (15°) Beam Intensity 1.6K mcd/52 Ft.Cd @20 mA
	337,379,398	GF200CR3K-5V-P	5V	20	34	115		
	386	GF200CR3K-14V-P	12/14V	20	34	115		
	334,388	GF200CR3K-24V-P	24V	15	26	85		
	334,388	GF200CR3K-28V-P	28V	15	26	85		
T1-3/4 (5mm) Midget Screw 	EXT. RES. REQD	SF200CR3K-2Vf-P	1.9Vf	20	34	115	120°	Center Contact Polarity P = Positive N = Negative Replace SF200 With S200 Narrow (15°) Beam Intensity 1.6K mcd/52 Ft.Cd @20 mA
	378,1768,1775	SF200CR3K-5V-P	5V	20	34	115		
	336,383	SF200CR3K-14V-P	12/14V	20	34	115		
	342	SF200CR3K-24V-P	24V	15	26	85		
	335,342,369,399	SF200CR3K-28V-P	28V	15	26	85		
T1-3/4 (5mm) Midget Bi-Pin 	7328	BPF200CR3K-5V	5V	20	34	115	120°	Replace BPF200 With BP200 Narrow (15°) Beam Intensity 1.6K mcd/52 Ft.Cd @20 mA
	7371	BPF200CR3K-12V	12V	20	34	115		
	7330,7382	BPF200CR3K-14V	12/14V	20	34	115		
	7327,7387	BPF200CR3K-24V	24V	15	26	85		
	7327,7387	BPF200CR3K-28V	28V	15	26	85		

All dimensions in inches. For millimeters multiply by 25.4