



## 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)

- Low Power, High Intensity
- Major Power Savings
- Major Reduction in Heat Generation
- Wide Angle 120° Illumination
- InGaAlP LED Technology
- 3 Year Warranty

## Options

- 605nm InGaAlP SP Orange Available
- Special Voltages
- High Power Multichip Configurations
- Narrow Beam (20°) Illumination
- **Red, 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		
<b>T1 (3mm) Sub-Midget Flange</b> 	EXT. RES. REQD	FF120CO3K-2Vf-P	2Vf	20	23	85	120°	Center Contact Polarity P = Positive N = Negative
	682,685,714,718	FF120CO3K-5V-P	5V	20	23	85		
	7241	FF120CO3K-18V-P	18V	15	17	64		
	6839	FF120CO3K-24V-P	24V	12	14	51		
	6839	FF120CO3K-28V-P	28V	12	14	51		Replace FF120 With F120 Medium (50°) Beam Intensity 350 mcd
<b>T1 (3mm) Sub-Midget Bi-Pin</b> 	EXT. RES. REQD	BPF120CO3K-2Vf	2Vf	20	23	85	120°	Replace BPF120 With BP120 Medium (50°) Beam Intensity 350 mcd@20 mA
	7265,7680,7714	BPF120CO3K-5V	5V	20	23	85		
		BPF120CO3K-14V	12/14V	15	17	64		
	7839	BPF120CO3K-24V	24V	12	14	51		
	7839	BPF120CO3K-28V	28V	12	14	51		
<b>T1-1/2 (4.5mm) Midget Wedge</b> 	EXT. RES. REQD	WF150CO3K-2Vf	2Vf	20	40	130	120°	Replace WF150 With W150 Narrow Beam (15°) Intensity 3.5K mcd@20 mA
	56,79,84,86	WF150CO3K-5V	5V	20	40	130		
	18,37,73,74	WF150CO3K-14V	12/14V	20	40	130		
	17, 85	WF150CO3K-24V	24V	15	30	98		
	17, 85	WF150CO3K-28V	28V	15	30	98		
<b>T1-3/4 (5mm) Midget Wedge</b> 	EXT. RES. REQD	WF200CO3K-2Vf	2Vf	20	40	130	120°	Replace WF200 With W200 Narrow Beam (15°) Intensity 3.5K mcd@ 20 mA
	56,79,84,86	WF200CO3K-5V	5V	20	40	130		
	18,37,73,74	WF200CO3K-14V	12/14V	20	40	130		
	17, 85	WF200CO3K-24V	24V	15	30	98		
	17, 85	WF200CO3K-28V	28V	15	30	98		
<b>T1-3/4 (5mm) Midget Flange</b> 	EXT. RES. REQD	FF200CO3K-2Vf-P	2Vf	20	40	130	120°	Center Contact Polarity BP = BiPolar AC/DC
	328,345,350	FF200CO3K-5V-P	5V	20	40	130		
	330,382,394	FF200CO3K-14V-P	12/14V	20	40	130		
	327,376,387	FF200CO3K-24V-P	24V	15	30	98		
	327,376,387	FF200CO3K-28V-P	28V	15	30	98		Replace FF200 With F200 Narrow (15°) Beam Intensity 3.5K mcd@20 mA
<b>T1-3/4 (5mm) Midget Groove</b> 	EXT. RES. REQD	GF200CO3K-2Vf-P	2Vf	20	40	130	120°	Center Contact Polarity BP = BiPolar AC/DC
	337,379,398	GF200CO3K-5V-P	5V	20	40	130		
	386	GF200CO3K-14V-P	12/14V	20	40	130		
	334,388	GF200CO3K-24V-P	24V	15	30	98		
	334,388	GF200CO3K-28V-P	28V	15	30	98		Replace GF200 With G200 Narrow (15°) Beam Intensity 3.5K mcd@20 mA
<b>T1-3/4 (5mm) Midget Screw</b> 	EXT. RES. REQD	SF200CO3K-2Vf-P	2Vf	20	40	130	120°	Center Contact Polarity P = Positive N = Negative
	378,1768,1775	SF200CO3K-5V-P	5V	20	40	130		
	336,383	SF200CO3K-14V-P	12/14V	20	40	130		
	342	SF200CO3K-24V-P	24V	15	30	98		
	335,342,369,399	SF200CO3K-28V-P	28V	15	30	98		Replace SF200 With S200 Narrow (15°) Beam Intensity 3.5K mcd@20 mA
<b>T1-3/4 (5mm) Midget Bi-Pin</b> 	7328	BPF200CO3K-5V	5V	20	40	130	120°	Replace BPF200 With BP200 Narrow (15°) Beam Intensity 3.5K mcd@20 mA
	7371	BPF200CO3K-12V	12V	20	40	130		
	7330,7382	BPF200CO3K-14V	12/14V	20	40	130		
	7327,7387	BPF200CO3K-24V	24V	15	30	98		
	7327,7387	BPF200CO3K-28V	28V	15	30	98		

All dimensions in inches. For millimeters multiply by 25.4