



American Opto Plus LED

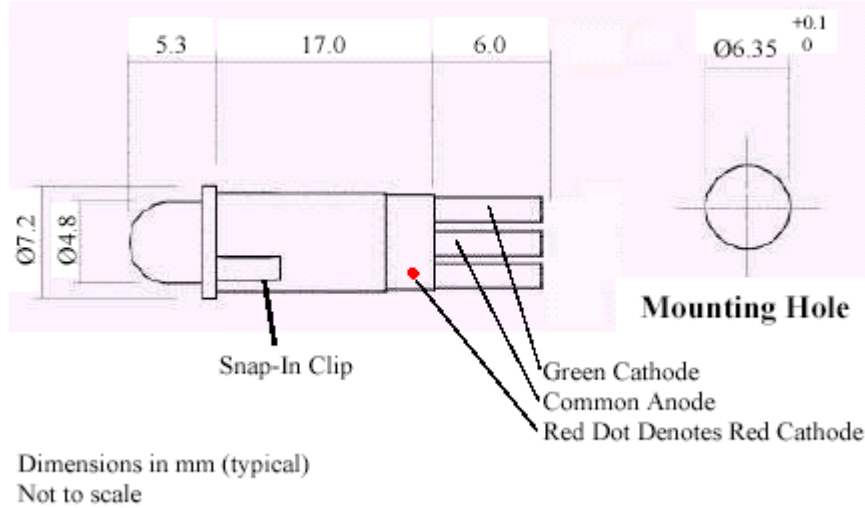
L-509XXW-H501

5.0mm Dia LED LAMP-MULTI COLOR

MAIN FEATURES

- 5.0mm DIA LED LAMP
- LOW POWER CONSUMPTION
- LONG LIFE SOLID STATE RELIABILITY
- C. COMPATIBLE
- TWO CHIPS ARE MATCHED FOR UNIFORM LIGHT OUTPUT

PACKAGE DIMENSIONS



Note:

1. All dimension are in millimeters (inches).
Tolerance is ± 0.25 mm (0.01") unless otherwise specified.

SELECTION GUIDE AND APPLICATION INFORMATION (RATINGS AT 25°C AMBIENT)

Part No.	Chip		Lens Color	Wave Length p(nm)	Absolute Maximun Ratings				Electro-Optical Characteristics					View Angle (deg)	FIG.	
	Raw	Emitted			$\Delta\lambda$	Pd	If	If (Peak)	Vf(V)			If (Rec)	Iv (mcd)			
	Material	Color							Min.	Typ.	Max.		Min.			Typ.
L-509EGW-H501	GaAsP/GaP	Hi. effi Red	White Diffused	635	45	100	30	160	1.7	2.0	2.8	10~20	8.0	20.0	60	3
	GaP	Green		565	30	100	30	160	1.7	2.1	2.8	10~20	5.0	15.0		
L-509EYW-H501	GaAsP/GaP	Hi. effi Red	White Diffused	635	45	100	30	160	1.7	2.0	2.8	10~20	8.0	20.0	60	1
	GaAsP/GaP	Yellow		585	30	100	30	160	1.7	2.1	2.8	10~20	5.0	15.0		
L-509GYW-H501	GaP	Green	White Diffused	565	30	100	30	160	1.7	2.1	2.8	10~20	5.0	15.0	60	2
	GaAsP/GaP	Yellow		585	30	100	30	160	1.7	2.1	2.8	10~20	5.0	15.0		
L-509LRSGW-H501	GaAlAs	Super Red	White Diffused	660	20	60	20	160	1.6	1.8	2.1	10~20	150.0	300	60	5
	GaP	Green		565	30	100	30	160	1.7	2.1	2.8	10~20	20.0	50.0		
L-509SRSGW-H501	GaAlAs	Super Red	White Diffused	660	20	60	20	160	1.6	1.8	2.1	10~20	50.0	150	60	5
	GaP	Green		565	30	100	30	160	1.7	2.1	2.8	10~20	20.0	50.0		
L-509SRSGW-CA-H501	GaAlAs	Super Red	White Diffused	660	20	60	20	160	1.6	1.8	2.1	10~20	50.0	150	60	6
	GaP	Green		565	30	100	30	160	1.7	2.1	2.8	10~20	20.0	50.0		

ABSOLUTE MAXIMUM RATING: (Ta=25C)

Reverse Voltage	: 5 Volt
Reverse Current(Vr = 5V)	: 10A
Operating Temperature Range	: -40C to + 80C
Storage Temperature Range	: -40C to + 100C
Lead Soldering Temperature	: 260C for 5 Seconds
(1.6mm(1/16inch) from body)	

ELECTRO-OPTICAL CHARACTERISTICS: (Ta=25C)

Para meter Description	Symbol	Unit
Spectral Line half-Width	$\Delta\lambda$	nm
Power Dissipation	Pd	mW
Peak Forward Current (Duty 1/10,@KHz)	If(Peak)	mA
Recommended Operation Current	If(Rec)	mA
Average Luminous intensity (If = 10mA)	Iv	mcd