



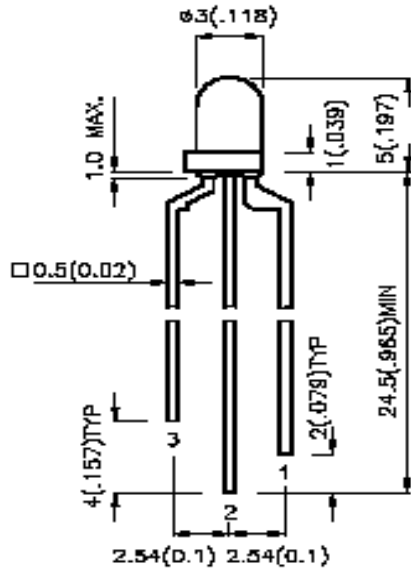
# American Opto Plus LED

## L-319XXW series

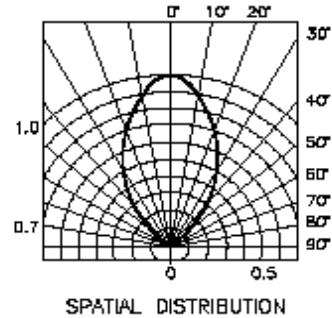
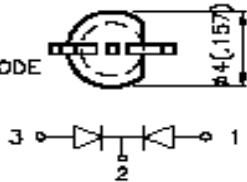
### 3mm Multi-Color LAMP

**MAIN FEATURES**  
 3mm Multi-Color LAMP  
 STANDARD 1" LEAD  
 I.C. COMPATIBLE  
 LOW POWER CONSUMPTION

### PACKAGE DIMENSIONS



- 1 : ANODE RED
- 2 : COMMON CATHODE
- 3 : ANODE GREEN



- Notes:
1. All dimensions are in millimeters (inches).
  2. Tolerance is  $\pm 0.25(0.01)$  unless otherwise noted.
  3. Lead spacing is measured where the lead emerge package.
  4. Specifications are subjected to change without notice.

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

Part No.	Chip		Lens Color	Wave Length	Absolute Maximum Ratings				Electro-Optical Characteristics					View Angle	
	Raw	Emitted			$\Delta\lambda$	Pd	If	If	Vf(V)		If	Iv (mcd)			
L-319GYW	GaP	Green	White Diffused	565	30	100	30	160	1.7	2.1	2.8	10-20	2.5	12.5	60
	GaAsP/GaP	Yellow	White Diffused	585	45	100	30	160	1.7	2.0	2.8	10-20	3.0	20.0	60
L-319YGW	GaAsP/GaP	Yellow	White Diffused	585	45	100	30	160	1.7	2.0	2.8	10-20	3.0	20.0	60
	GaP	Green	White Diffused	565	30	100	30	160	1.7	2.1	2.8	10-20	2.5	12.5	60
L-319EGW	GaAsP/GaP	Hi. effi Red	White Diffused	635	45	100	30	160	1.7	2.0	2.8	10-20	3.0	20.0	60
	GaP	Green	White Diffused	565	30	100	30	160	1.7	2.1	2.8	10-20	2.5	12.5	60
L-319SRSGW	GaAlAs	Red	White Diffused	660	20	60	20	160	1.6	1.8	2.1	10-20	60	120	60
	GaP	Green	White Diffused	565	30	100	30	160	1.7	2.1	2.8	10-20	50	100	60
L-319QEQGW	AllnGaP	Red	White Diffused	630		100	30	100		2.2	2.4	20	260	400	60
	AllnGaP	Green	White Diffused	563		100	30	100		2.1	2.3	20	90	200	60

\*\* L319QEQGW specification is Preliminary only.

#### ABSOLUTE MAXIMUM RATING: (Ta=25°C)

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

#### ELECTRO-OPTICAL CHARACTERISTICS: (Ta=25°C)

Para meter Description	Symbol	Unit
Spectral Line half-Width		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