

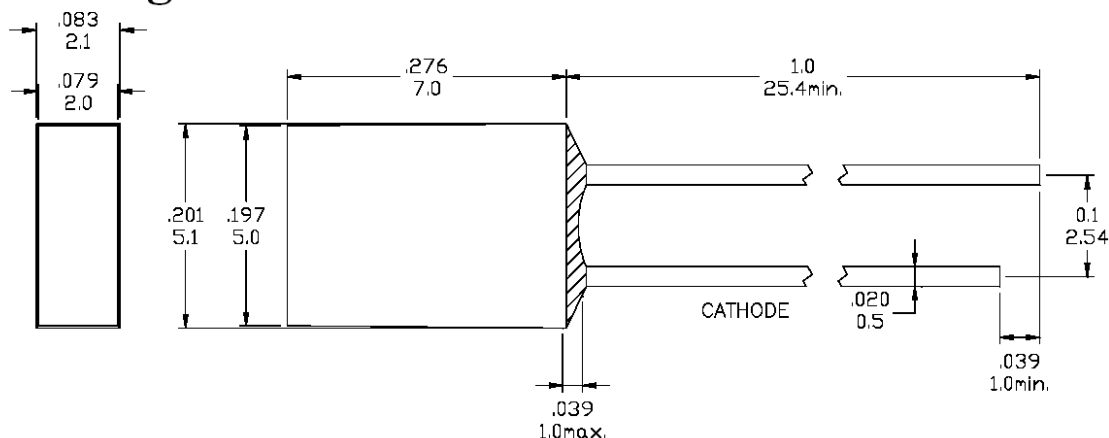


American Opto Plus LED L-403XD Series

2.0 x 5.0 x 7.0mm Rectangular LED LAMP
COLOR DIFFUSED LENS, FLANGELESS

- ❖ 2.0 x 5.0 x 7.0mm Rectangular LED
- ❖ STANDARD 1" LEAD
- ❖ I.C. COMPATIBLE
- ❖ LOW POWER CONSUMPTION

Package Dimension



* Tolerance : $\pm \frac{0.01}{0.25}$ Unit : $\pm \frac{\text{inch}}{\text{mm}}$

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						Angle (deg)
	Raw Material	Emitted Color			$\Delta\lambda$ nm	Pd mW	If mA	If (Peak)	Vf(V)			If	Iv (mcd)		
									Min.	Typ.	Max.	(Rec)	Min.	Typ.	
L-403HD	GaP	Bright Red	Red Diffused	700	90	45	15	50	1.7	2.1	2.8	5~10	0.8	2.0	120
L-403ED	GaAsP	Hi.effi Red	Red Diffused	635	45	100	30	160	1.7	2.0	2.8	10~20	3.0	10.0	120
L-403ED-E	GaAsP	Orange	Orange Diffused	635	45	100	30	160	1.7	2.0	2.8	10~20	3.0	10.0	120
L-403GD	GaP	Green	Green Diffused	565	30	100	30	160	1.7	2.1	2.8	10~20	2.0	8.0	120
L-403SGD	GaP	Green	Green Diffused	565	30	100	30	160	1.7	2.1	2.8	10~20	8.0	20.0	120
L-403LGD	GaP	Green	Green Diffused	565	30	100	30	160	1.7	2.1	2.8	10~20	20.0	50.0	120
L-403UGD	GaP	Green	Green Diffused	565	30	100	30	160	1.7	2.1	2.8	10~20	50.0	80.0	120
L-403YD	GaAsP	Yellow	Yellow Diffused	585	30	100	30	160	1.7	2.1	2.8	10~20	2.0	8.0	120
L-403SYD	GaAsP	Yellow	Yellow Diffused	585	30	100	30	160	1.7	2.1	2.8	10~20	8.0	20.0	120
L-403LYD	GaAsP	Yellow	Yellow Diffused	585	30	100	30	160	1.7	2.1	2.8	10~20	20.0	50.0	120
L-403ID	GaAlAs	Hi.effi Red	Red Diffused	625	20	60	20	160	1.6	1.8	2.1	10~20	10.0	30.0	120
L-403SRD	GaAlAs	Super Red	Red Diffused	660	20	60	20	160	1.6	1.8	2.1	10~20	30.0	80.0	120
L-403LRD	GaAlAs	Super Red	Red Diffused	660	20	60	20	160	1.6	1.8	2.1	10~20	80.0	120	120
L-403URD	GaAlAs	Super Red	Red Diffused	660	20	60	20	160	1.6	1.8	2.1	10~20	120	200	120

ABSOLUTE MAXIMUM RATING: (Ta=25°C)

Reverse Voltage	: 5 Volt
Reverse Current(Vr = 5V)	: 100μA
Operating Temperature Range	: -20°C to +80°C
Storage Temperature Range	: -30°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	$\Delta\lambda$	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 = 20mA)	Iv	mcd