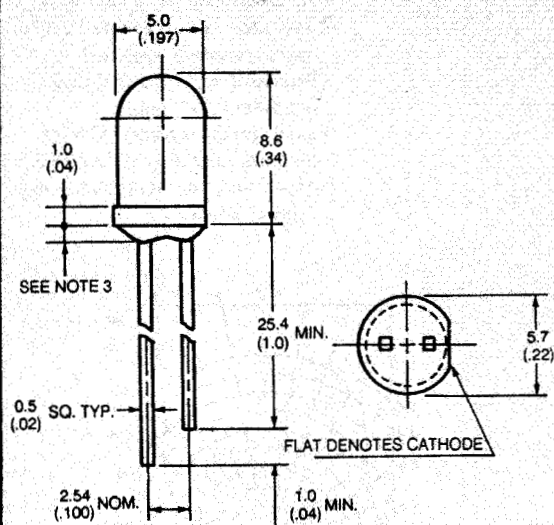


L-513XX series ... 5mm Dia LED LAMP

MAIN FEATURES :

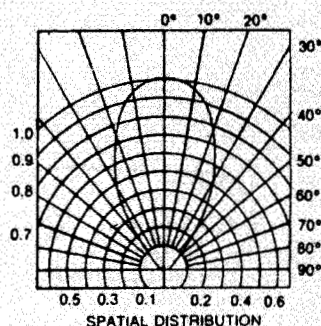
- ⊙ 5mm DIA LED LAMP
- ⊙ POPULAR T-1 3/4, 1" LEAD
- ⊙ I.C. COMPATIBLE
- ⊙ LOW POWER CONSUMPTION

◆ PACKAGE DIMENSIONS

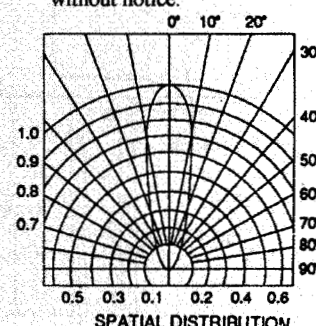


Notes:

1. All Dimension are in millimeter.
2. Tolerance is $\pm 0.25\text{mm}(0.010")$ unless otherwise specified.
3. Protruded resin under flange is is 1.5mm(0.59") max.
4. Lead spacing is measured where the leads emerge from the package.
5. Specification are subject to change without notice.



L-513XD



L-513XC&XT

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

Part No.	Chip			Wave	Absolute Maximum Ratings				Electro-Optical Characteristics						View
	Raw	Emitted	Lens Color	Length	$\Delta\lambda$	Pd	If	If	Vf(V)			If		Iv (mcd)	Angle
	Material	Color		λ p(nm)	nm	mW	mA	(Peak)	Min.	Typ.	Max.	(Rec)	Min.	Typ.	(deg)
L-513RD	GaAsP	Red	Red Diffused	655	40	110	40	200	1.5	1.7	2.0	10~20	0.5	3.0	60
L-513HD	GaP	Bright Red	Red Diffused	700	90	45	15	50	1.7	2.1	2.8	5~10	0.8	5.0	60
L-513ED	GaAsP/GaP	Hi. effi Red	Red Diffused	635	45	100	30	160	1.7	2.0	2.8	10~20	5.0	20.0	60
L-513ED-E	GaAsP/GaP	Orange	Orange Diffused	635	45	100	30	160	1.7	2.0	2.8	10~20	5.0	20.0	60
L-513GD	GaP	Green	Green Diffused	565	30	100	30	160	1.7	2.1	2.8	10~20	3.0	15.0	60
L-513YD	GaAsP/GaP	Yellow	Yellow Diffused	585	30	100	30	160	1.7	2.1	2.8	10~20	5.0	20.0	60
L-513AD	GaAsP/GaP	Amber	Amber Diffused	585	30	100	30	160	1.7	2.1	2.8	10~20	5.0	20.0	60
L-513I D	GaAlAs	Hi. effi Red	Red Diffused	625	20	60	20	160	1.6	1.8	2.1	10~20	20.0	50.0	60
L-513SRD	GaAlAs	Super Red	Red Diffused	660	20	60	20	160	1.6	1.8	2.1	10~20	50.0	200	60
L-513LRD	GaAlAs	Super Red	Red Diffused	660	20	60	20	160	1.6	1.8	2.1	10~20	200	300	60
L-513URD	GaAlAs	Super Red	Red Diffused	660	20	60	20	160	1.6	1.8	2.1	10~20	300	500	60
L-513HT	GaP	Bright Red	Red Transparent	700	90	45	15	50	1.7	2.1	2.8	5~10	5.0	10.0	30
L-513ET	GaAsP/GaP	Hi. effi Red	Red Transparent	635	45	100	30	160	1.7	2.0	2.8	10~20	15.0	45.0	30
L-513ET-E	GaAsP/GaP	Orange	Orange Transparent	635	45	100	30	160	1.7	2.0	2.8	10~20	15.0	45.0	30
L-513GT	GaP	Green	Green Transparent	565	30	100	30	160	1.7	2.1	2.8	10~20	8.0	20.0	30
L-513YT	GaAsP/GaP	Yellow	Yellow Transparent	585	30	100	30	160	1.7	2.1	2.8	10~20	8.0	20.0	30
L-513AT	GaAsP/GaP	Amber	Amber Transparent	585	30	100	30	160	1.7	2.1	2.8	10~20	8.0	20.0	30
L-513I T	GaAlAs	Hi. effi Red	Red Transparent	625	20	60	20	160	1.6	1.8	2.1	10~20	45.0	100	30
L-513SRT	GaAlAs	Super Red	Red Transparent	660	20	60	20	160	1.6	1.8	2.1	10~20	100	250	30
L-513LRT	GaAlAs	Super Red	Red Transparent	660	20	60	20	160	1.6	1.8	2.1	10~20	250	400	30
L-513URT	GaAlAs	Super Red	Red Transparent	660	20	60	20	160	1.6	1.8	2.1	10~20	400	600	30
L-513HC	GaP	Bright Red	Water Clear	700	90	45	15	50	1.7	2.1	2.8	5~10	8.0	20.0	30
L-513EC	GaAsP/GaP	Hi. effi Red	Water Clear	635	45	100	30	160	1.7	2.0	2.8	10~20	20.0	60.0	30
L-513GC	GaP	Green	Water Clear	565	30	100	30	160	1.7	2.1	2.8	10~20	10.0	30.0	30
L-513YC	GaAsP/GaP	Yellow	Water Clear	585	30	100	30	160	1.7	2.1	2.8	10~20	10.0	30.0	30
L-513I C	GaAlAs	Hi. effi Red	Water Clear	625	20	60	20	160	1.6	1.8	2.1	10~20	60.0	300	30
L-513SRC	GaAlAs	Super Red	Water Clear	660	20	60	20	160	1.6	1.8	2.1	10~20	300	1000	30
L-513LRC	GaAlAs	Super Red	Water Clear	660	20	60	20	160	1.6	1.8	2.1	10~20	1000	2000	30
L-513URC	GaAlAs	Super Red	Water Clear	660	20	60	20	160	1.6	1.8	2.1	10~20	2000	3000	30