



## JSL-512 Series (5mm oval ultra brightness LED diode)

### Features:

- 1.Ultra brightness.
- 2.Choice of various viewing angles
- 3.IC compatible /Low current capability
- 4.Long life solid state reliability.
5. RoHs compliant.

### Electrical and optical characteristics(Ta=25 °c)

Part Number	Dice material And color	Lens color	Peak Wavelength	Vf(V) Typ	Iv(mcd)			Viewing Angle 2 θ 1/2
					Min	Typ	Max	
JSL-512URC	GaAlAs/Ultra Red	Water Clear	625nm	2.0	1200	2500	3500	45°/30°
JSL-512URD-TL	AlGaInP/Ultra Red	Red Diffused	625nm	2.0	1200	1600	2500	60°/30°
JSL-512URD-S	AlGaInP/Ultra Red	Red Diffused	625nm	2.0	600	900	1200	60°/30°
JSL-512UYC	AlGaInP/Ultra Yellow	Water Clear	590nm	2.0	1200	2500	3500	45°/30°
JSL-512UYD-TL	AlGaInP/Ultra Yellow	Yellow diffused	590nm	2.0	800	1600	2500	60°/30°
JSL-512UYD-S	AlGaInP/Ultra Yellow	Yellow diffused	590nm	2.0	600	900	1200	60°/30°
JSL-512UBC	InGaN/Ultra Blue	Water Clear	470nm	3.2	2000	3000	4500	45°/30°
JSL-512UBD	InGaN/Ultra Blue	Blue diffused	470nm	3.2	1000	1500	2500	60°/30°
JSL-512PGC	InGaN/Pure Green	Water Clear	525nm	3.2	5000	10000	15000	45°/30°
JSL-512PGD	InGaN/Pure Green	Green diffused	525nm	3.2	3000	4000	6000	60°/30°
JSL-512UWC	InGaN/Ultra White	Water Clear	6000K	3.2	8000	12000	18000	45°/30°
JSL-512UWD	InGaN/Ultra White	White Diffused	6000K	3.2	3500	4500	6000	60°/30°
JSL-512WWC	InGaN/Warm White	Water Clear	3000K	3.2	8000	10000	15000	45°/30°
JSL-512WWD	InGaN/Warm White	White Diffused	3000K	3.2	3000	4000	5000	60°/30°

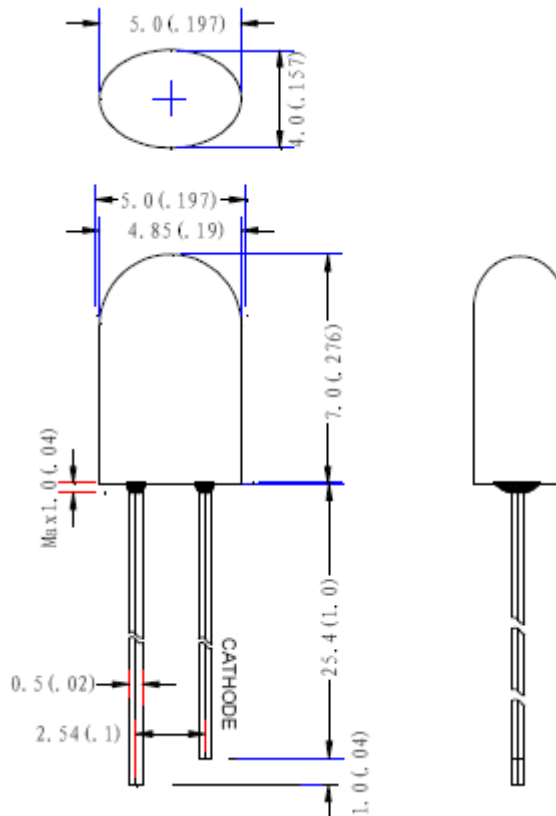


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### Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	UR	UY	UB	PG	UW	WW	Unit
Forward Current	I <sub>F</sub>	25	25	30	30	30	30	mA
Power Dissipation	P <sub>d</sub>	60	60	100	100	100	100	mW
Reverse Voltage	V <sub>R</sub>	5						V
Peak Forward Current (Duty 1/10 @ 1KHZ)	I <sub>PF</sub>	150						mA
Operation Temperature	T <sub>OPR</sub>	-40 to +80						°C
Storage Temperature	T <sub>STG</sub>	-40 to +85						°C

### Package configuration:



- 1.All dimensions are millimeters (inches)
- 2.Tolerance is  $\pm 0.25\text{mm}(.010\text{'})$  unless otherwise noted.