



JSL-502 12V Series (5mm round ultra bright 12V LED diode)

Features:

- 1.Ultra brightness.
- 2.12V Voltage
- 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-502URD-12V	AlGaInP/Ultra Red	Red Diffused	625nm	12.0	400	450	500	30°
JSL-502UYD-12V	AlGaInP/Ultra Yellow	Yellow Diffused	595nm	12.0	250	300	350	30°
JSL-502UGD-12V	AlGaInP /Ultra Green	Green diffused	574nm	12.0	40	50	60	30°
JSL-502UBD-12V	InGaN/Ultra Blue	Blue Diffused	470nm	12.0	200	250	300	30°
JSL-502PGD-12V	InGaN/Pure Green	Green Diffused	525nm	12.0	2000	3000	4000	30°
JSL-502UWD-12V	InGaN/Ultra White	White Diffused	6000k	12.0	3000	4000	5000	30°
JSL-502WWD-12V	InGaN/Warm White	White Diffused	3000k	12.0	3000	4000	5000	30°
JSL-502URC-12V	AlGaInP/Ultra Red	Water Clear	625nm	12.0	1000	1500	2000	20°
JSL-502UYC-12V	AlGaInP/Ultra Yellow	Water Clear	595nm	12.0	1000	1500	2000	20°
JSL-502UBC-12V	InGaN/Ultra Blue	Water Clear	470nm	12.0	1000	1200	1500	20°
JSL-502PGC-12V	InGaN/Pure Green	Water Clear	525nm	12.0	5000	8000	10000	20°
JSL-502UWC-12V	InGaN/Ultra White	Water Clear	6000k	12.0	8000	10000	15000	20°
JSL-502WWC-12V	InGaN/Warm White	Water Clear	3000k	12.0	8000	10000	15000	20°

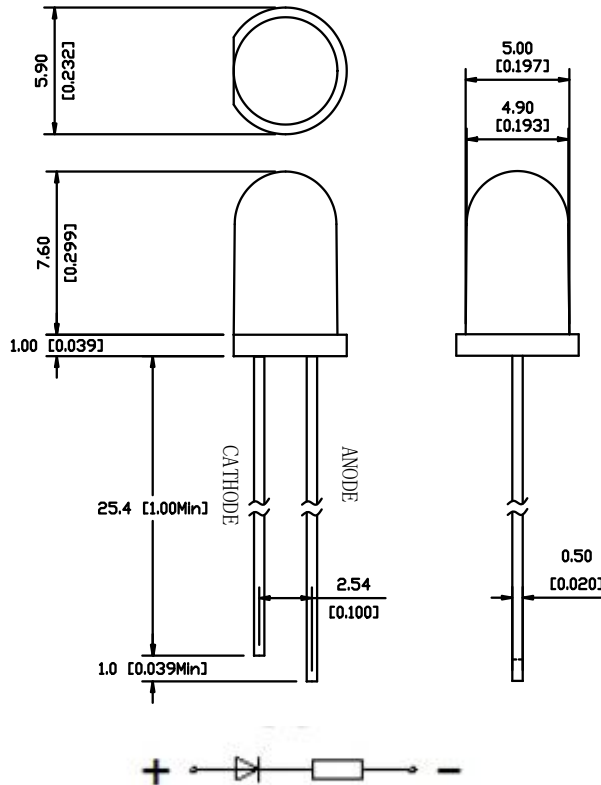


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Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	UR	UY	UG	UA	UB	BG	PG	UV	UP	UW	WW	Unit
Forward Current	I _F	25	25	25	25	30	30	30	30	30	30	30	mA
Power Dissipation	P _d	60	60	60	60	100	100	100	100	100	100	100	mW
Reverse Voltage	V _R	5											V
Resistor	Ω	800											Ω
Peak Forward Current (Duty 1/10 @1KHZ)	I _{PF}	150											mA
Operation Temperature	T _{OPR}	-40 to +80											°C
Storage Temperature	T _{STG}	-40 to +85											°C

Package configuration:



- 1.All dimensions are millimeters (inches)
- 2.Tolerance is ±0.25mm(.010") unless otherwise noted.