

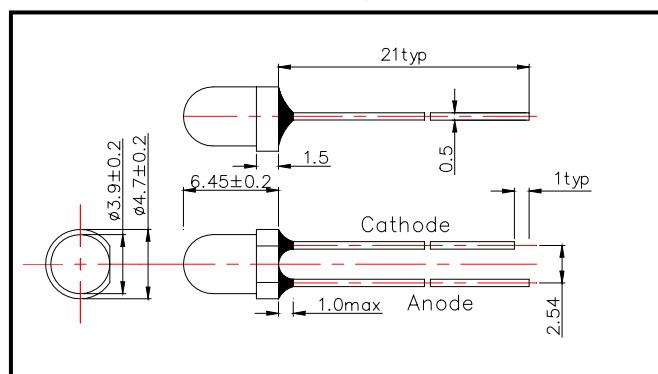
# L525-42V Super Bright Green LED

L525-42V is an InGaN LED mounted on a lead frame with a clear epoxy lens.  
On forward bias it emits a band of visible light, which peaks 525nm.

### ◆ Specifications

1) Product Name	Green LED Lamp
2) Type No.	L525-42V
3) Chip	
(1) Chip Material	InGaN
(2) Peak Wavelength	525nm typ.
4) Package	
(1) Type	Φ4mm clear molding
(2) Resin Material	Epoxy Resin
(3) Lead Frame	Soldered

### ◆ Outer dimension (Unit: mm)



### ◆ Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	$P_D$	120	mW	$T_a=25^\circ\text{C}$
Forward Current	$I_F$	30	mA	$T_a=25^\circ\text{C}$
Reverse Voltage	$V_R$	5	V	$T_a=25^\circ\text{C}$
Operating Temperature	$T_{OPR}$	-30 ~ +80	$^\circ\text{C}$	
Storage Temperature	$T_{STG}$	-30 ~ +100	$^\circ\text{C}$	
Soldering Temperature	$T_{SOL}$	260	$^\circ\text{C}$	

‡Soldering condition: Soldering condition must be completed within 3 seconds at  $260^\circ\text{C}$

### ◆ Electro-Optical Characteristics

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	$V_F$	$I_F=20\text{mA}$		3.5	4.3	V
Reverse Current	$I_R$	$V_R=5\text{V}$			10	$\mu\text{A}$
Total Radiated Power	$P_O$	$I_F=20\text{mA}$		3.5		mW
Radiant Intensity	$I_E$	$I_F=20\text{mA}$		4.0		$\text{mW/sr}$
Brightness	$I_v$	$I_F=20\text{mA}$		220		mcd
Peak Wavelength	$\lambda_P$	$I_F=20\text{mA}$	515	525	535	nm
Half Width	$\Delta\lambda$	$I_F=20\text{mA}$		40		nm
Viewing Half Angle	$\theta_{1/2}$	$I_F=20\text{mA}$		$\pm 22$		deg.

‡Brightness is measured by Tektronix J-16.

‡Total Radiated Power is measured by Photodyne #500