



## LED525-33

- Green LED
- 525 nm, 9 mW
- Chip: InGaN, 350 x 350  $\mu\text{m}$
- 3 mm Clear Molding, Epoxy Resin
- Viewing Angle: 28°



### Description

**LED525-01** contains one InGaN LED chip die mounted on a lead frame hermetically sealed with a clear epoxy lens.

On forward bias, it emits a power radiation of typical **9 mW** at a peak wavelength at **525 nm**.

### Maximum Ratings ( $T_{\text{CASE}}=25^{\circ}\text{C}$ )

Parameter	Symbol	Values		Unit
		Min.	Max.	
Power Dissipation	$P_D$		200	mW
Forward Current	$I_F$		50	mA
Pulse Forward Current *1	$I_{FP}$		100	mA
Reverse Voltage	$V_F$		5	V
Thermal Resistance	$R_{THJA}$		270	K/W
Junction Temperature	$T_J$		120	$^{\circ}\text{C}$
Operating Temperature	$T_{\text{CASE}}$	- 40	+ 100	$^{\circ}\text{C}$
Storage Temperature	$T_{\text{STG}}$	- 40	+ 100	$^{\circ}\text{C}$
Lead Solder Temperature *2	$T_{\text{SLD}}$		+ 265	$^{\circ}\text{C}$

\*1 duty=1%, pulse width = 10  $\mu\text{s}$

\*2 must be completed within 3 seconds

### Electro-Optical Characteristics ( $T_{\text{CASE}}=25^{\circ}\text{C}$ )

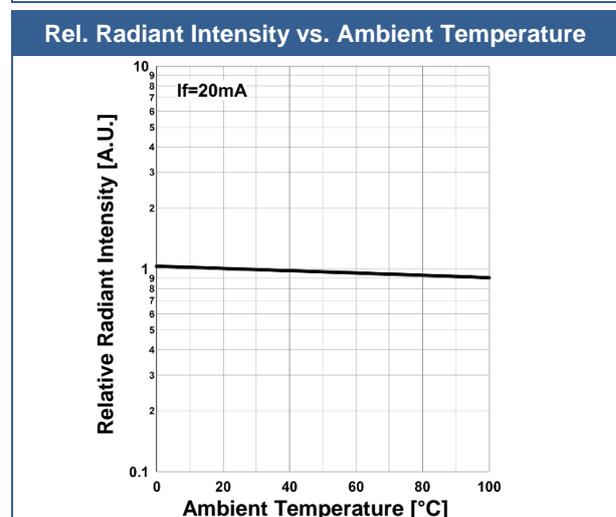
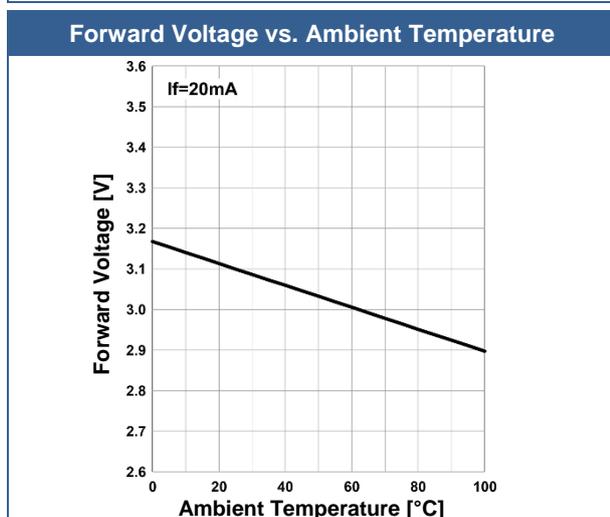
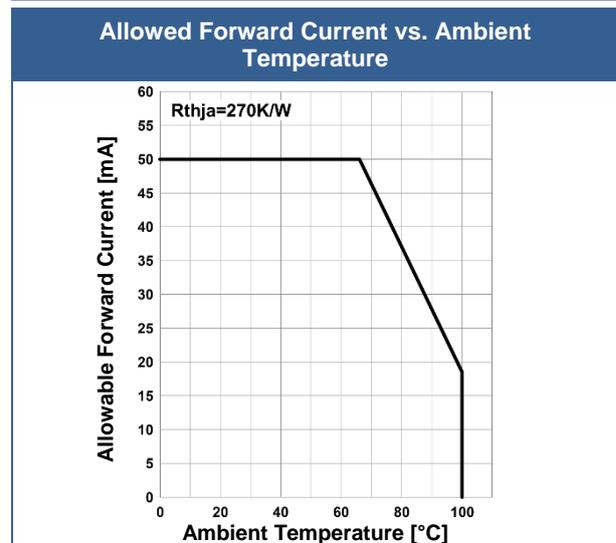
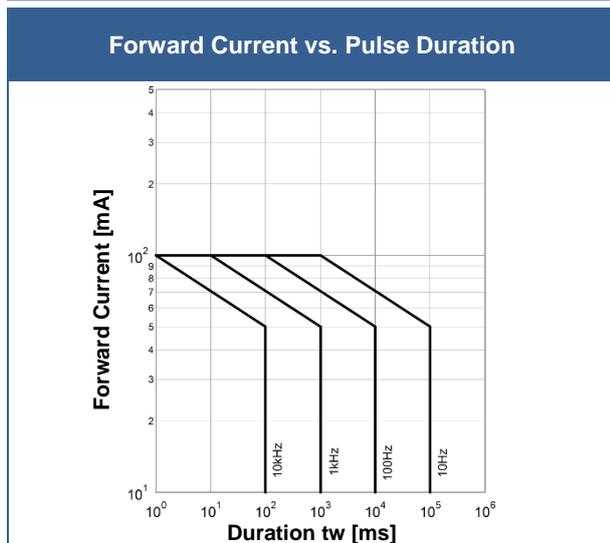
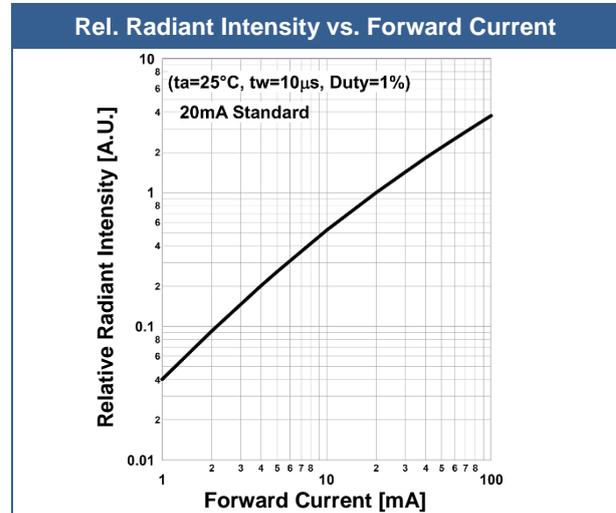
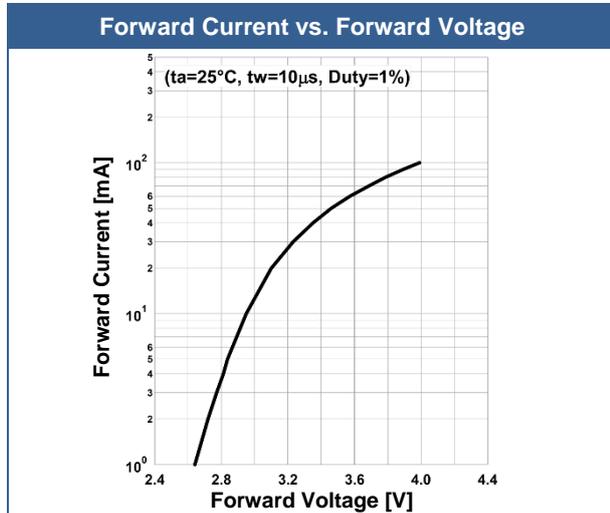
Parameter	Symbol	Conditions	Values			Unit
			Min.	Typ.	Max.	
Peak Wavelength	$\lambda_P$	$I_F=20\text{mA}$	515		535	nm
Dominant Wavelength	$\lambda_D$	$I_F=20\text{mA}$		535		nm
Half Width	$\Delta\lambda$	$I_F=20\text{mA}$		28		nm
Forward Voltage	$V_F$	$I_F=20\text{mA}$		3.1	4.0	V
	$V_{FP}$	$I_{FP}=100\text{mA}$		4.0		
Radiated Power *1	$P_O$	$I_F=20\text{mA}$		9.0		mW
		$I_{FP}=100\text{mA}$		33		
Radiant Intensity *2	$I_E$	$I_F=20\text{mA}$		36		mW/sr
		$I_{FP}=100\text{mA}$		130		
Luminous Flux	$\Phi_V$	$I_F=20\text{mA}$		5400		mlm
Viewing Angle	$\varphi$	$I_F=20\text{mA}$		28		deg.
Rise Time	$t_R$	$I_F=20\text{mA}$		25		ns
Fall Time	$t_F$	$I_F=20\text{mA}$		50		ns

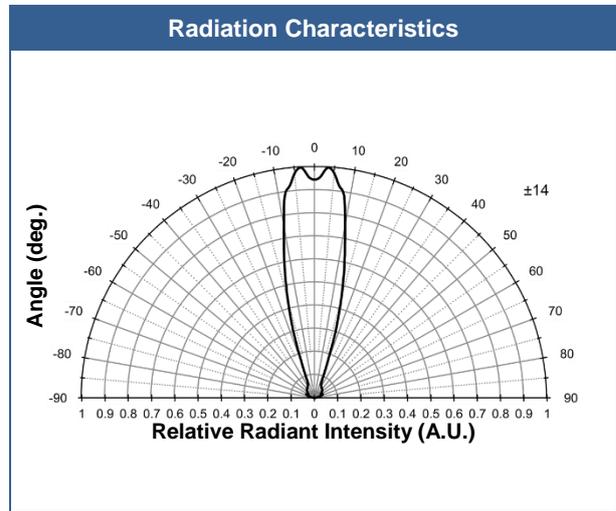
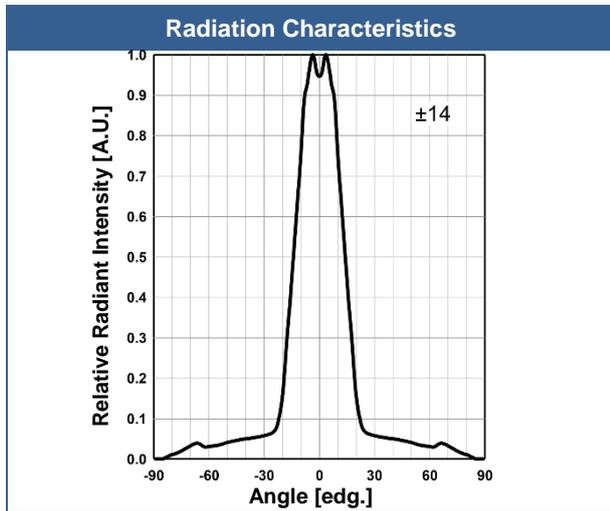
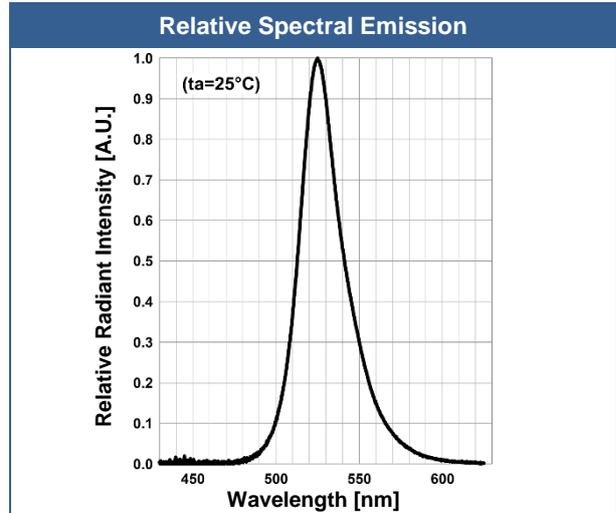
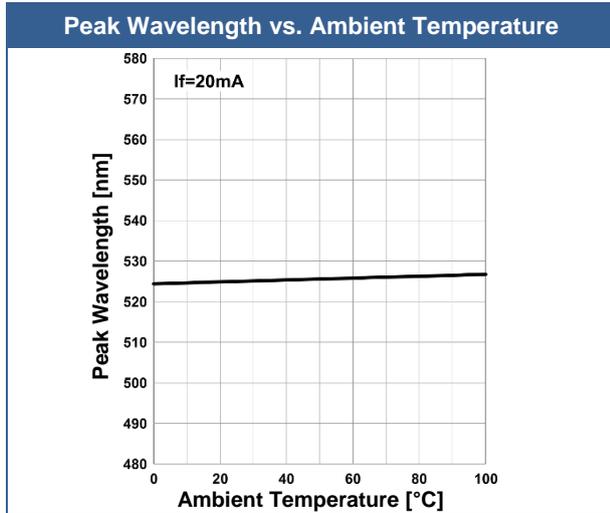
\*1 measured by S3584-08

\*2 measured by CIE127-2007 Condition B



## Typical Performance Curves





## Outline Dimensions

LED525-33
3 mm

Lead	Description
Short Pin	LED Cathode
Long Pin	LED Anode

All Dimensions in mm

