



LED760-33AU

- Infrared LED
- 760 nm, 27 mW
- Chip: AlGaAs, 400 x 400 μm , 1 pc.
- 3 mm Clear Molding, Epoxy Resin
- Viewing Angle: 36°



Description



LED760-33AU contains one AlGaAs LED chip die with a typical peak wavelength of **760 nm** and radiation power of **27 mW**. It comes in $\varnothing 3$ mm clear molding package with soldered lead frame (lead free) and lens molded with epoxy resin.

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

Parameter	Symbol	Values		Unit
		Min.	Max.	
Power Dissipation	P_D		220	mW
Forward Current	I_F		100	mA
Pulse Forward Current *1	I_{FP}		500	mA
Reverse Voltage	V_F		5	V
Thermal Resistance	R_{THJA}		210	K/W
Junction Temperature	T_J		120	$^{\circ}\text{C}$
Operating Temperature	T_{CASE}	- 40	+ 100	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	- 40	+ 100	$^{\circ}\text{C}$
Lead Solder Temperature *2	T_{SLD}		+ 265	$^{\circ}\text{C}$

*1 duty=1%, pulse width = 10 μs

*2 must be completed within 5 seconds

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

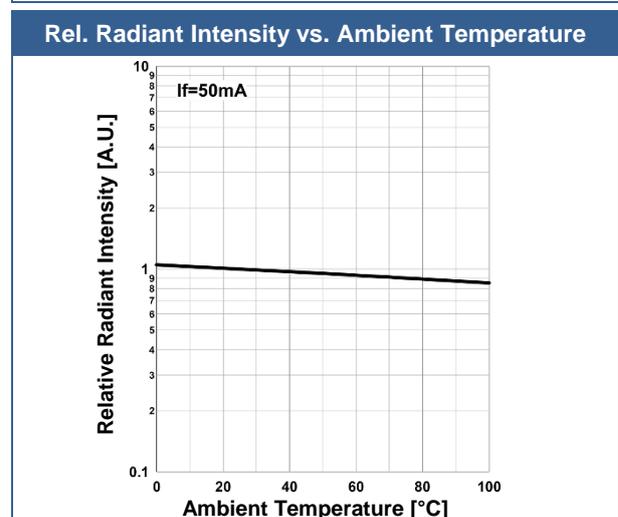
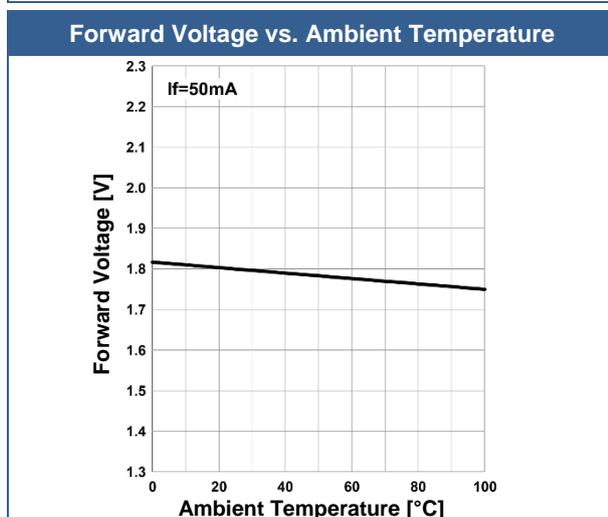
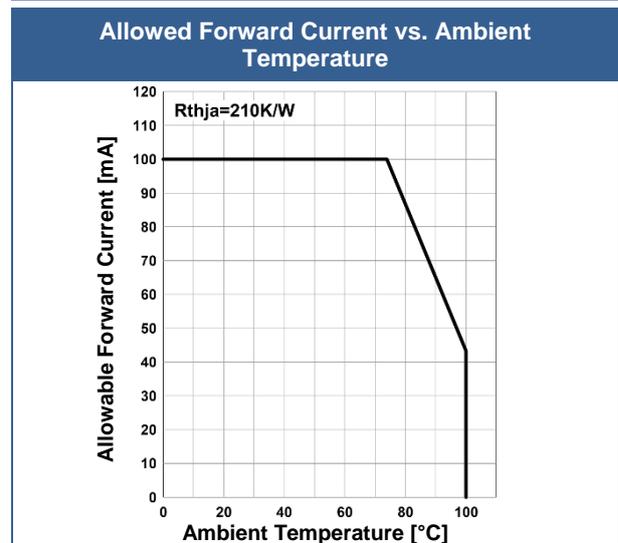
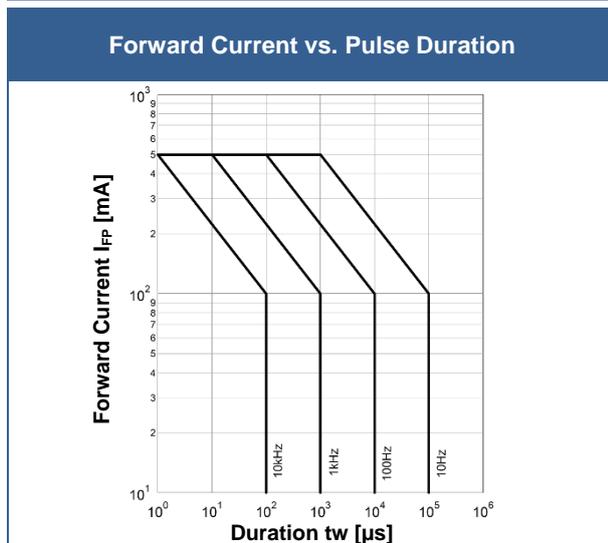
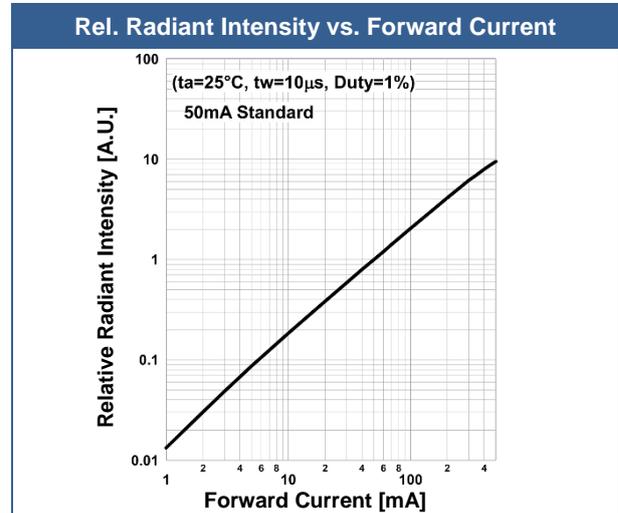
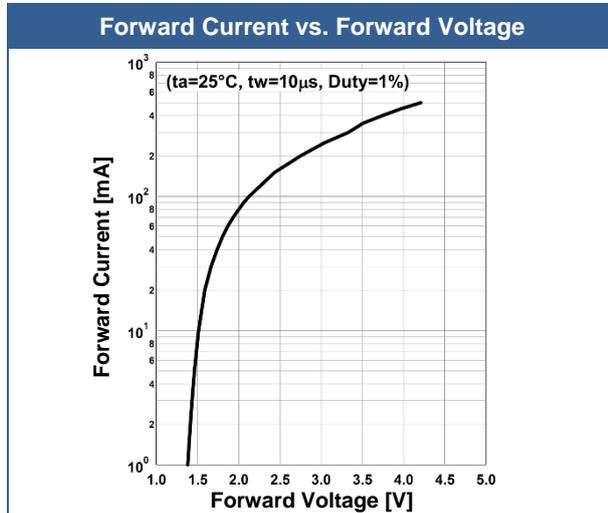
Parameter	Symbol	Conditions	Values			Unit
			Min.	Typ.	Max.	
Peak Wavelength	λ_P	$I_F=50\text{mA}$	750		770	nm
Half Width	$\Delta\lambda$	$I_F=50\text{mA}$		26		nm
Forward Voltage	V_F	$I_F=50\text{mA}$		1.8	2.2	V
	V_{FP}	$I_{FP}=500\text{mA}$		4.2		
Radiated Power *1	P_O	$I_F=50\text{mA}$		27		mW
		$I_{FP}=500\text{mA}$		250		
Radiant Intensity *2	I_E	$I_F=50\text{mA}$		130		mW/sr
		$I_{FP}=500\text{mA}$		1200		
Viewing Angle	$2\theta_{1/2}$	$I_F=50\text{mA}$		36		deg.
Rise Time	t_r	$I_F=50\text{mA}$		10		ns
Fall Time	t_f	$I_F=50\text{mA}$		15		ns

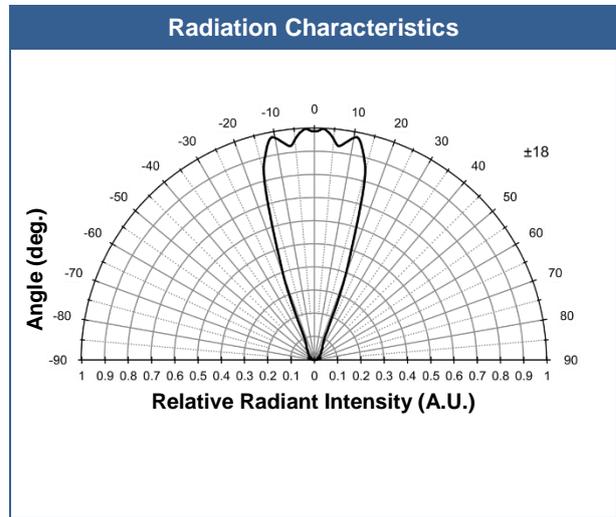
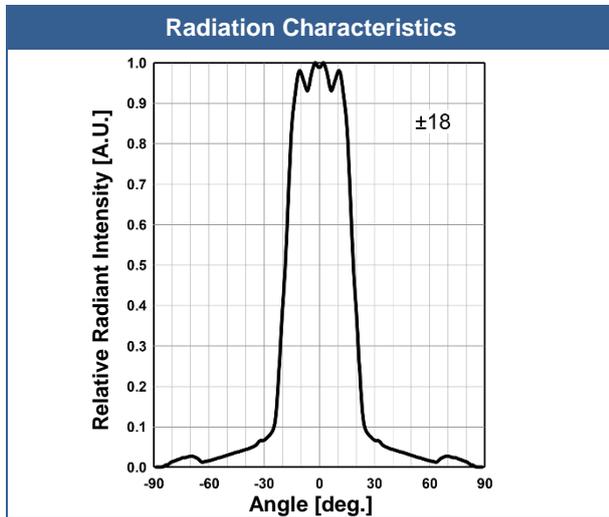
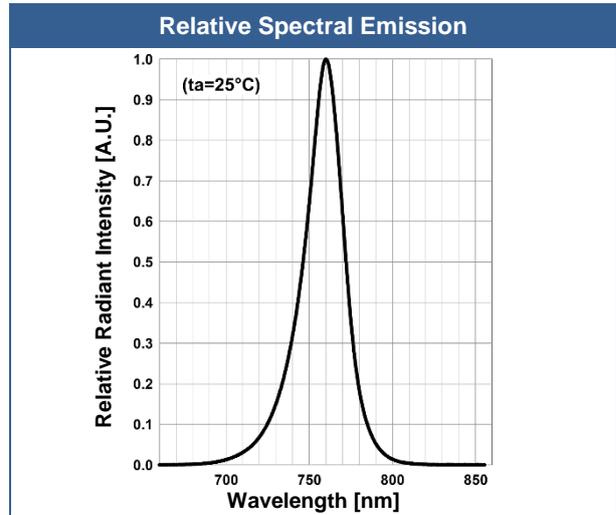
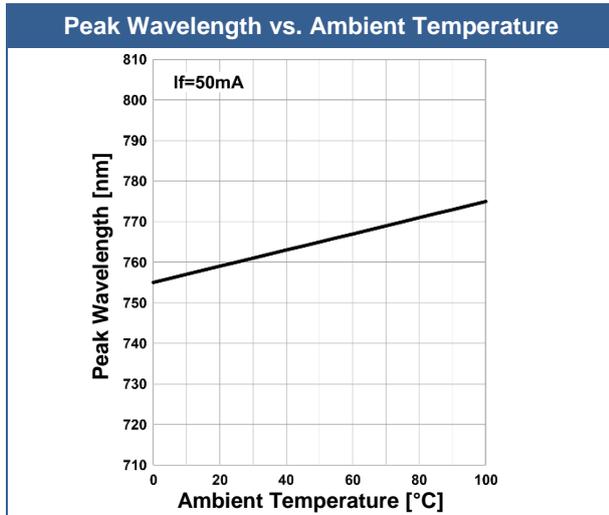
*1 measured by S3584-08

*2 measured by CIE127-2007 Condition B

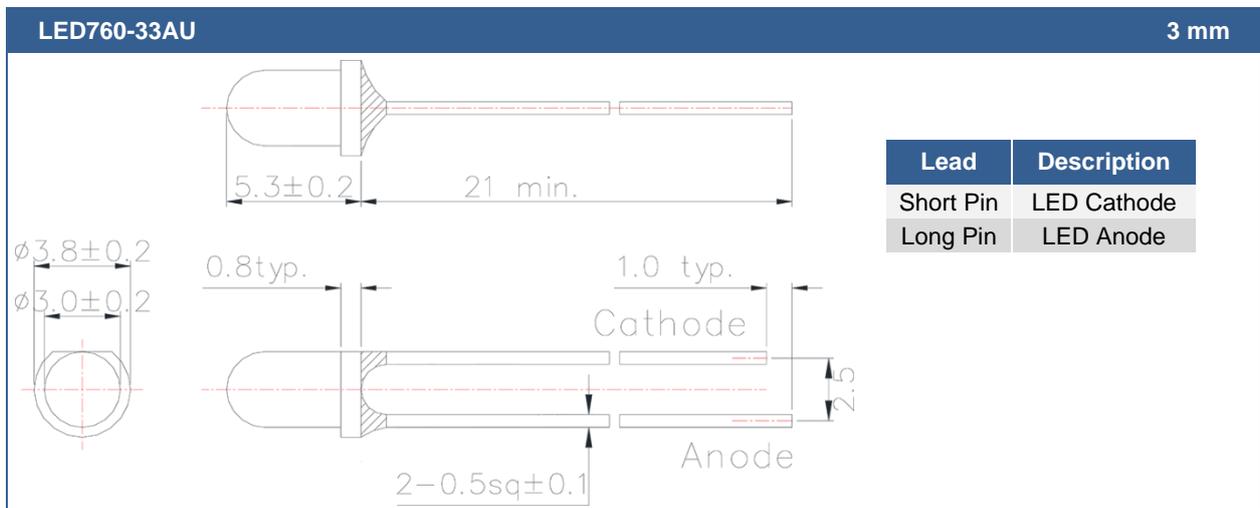


Typical Performance Curves





Outline Dimensions



All Dimensions in mm



Revisions History

Rel.	Rel. Date	Chapter	Modification	Page
A1	2017-03	-	Initial release	-

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The above specifications are for reference purpose only and subjected to change without prior notice