



YETDA INDUSTRY LTD.

Technical Data Sheet

MODEL NO : 776UR/YG4-TR

PLCC-4 3.5*2.8mm

Features :

- Compatible with automatic placement equipment
- Compatible with reflow solder process

Applications :

- Indicators
- Automotive : backlighting in dashboard and switch
- Backlight for LCD

Dice material	Emitted color	Lens Color
AlGaInP/GaAs	Red	Water transparent
AlGaInP/GaAs	Green	

Electrical/Optical Characteristics(Ta=25°C)

Parameter	Test Condition	Symbol		Value			Unit
				Min	Typ	Max	
Wavelength at peak emission	If=20mA	λ peak	R	--	630	--	nm
			YG	--	572	--	
Spectral half bandwidth	If=20mA	$\Delta \lambda$	R	--	18	--	nm
			YG	--	17	--	
Dominant wavelength	If=20mA	λ dom	R	615	620	630	nm
			YG	565	570	576	
Forward voltage	If=20mA	Vf	R	1.7	2.0	2.5	V
			YG	1.7	2.0	2.5	
Chip luminous intensity * 1	If=20mA	Iv	R	70	--	--	mcd
			YG	30	--	--	
Viewing angle at 50% Iv	If=10mA	2 θ 1/2		--	120	--	Deg
Reverse current	Vr=5V	Ir		--	--	10	μ A

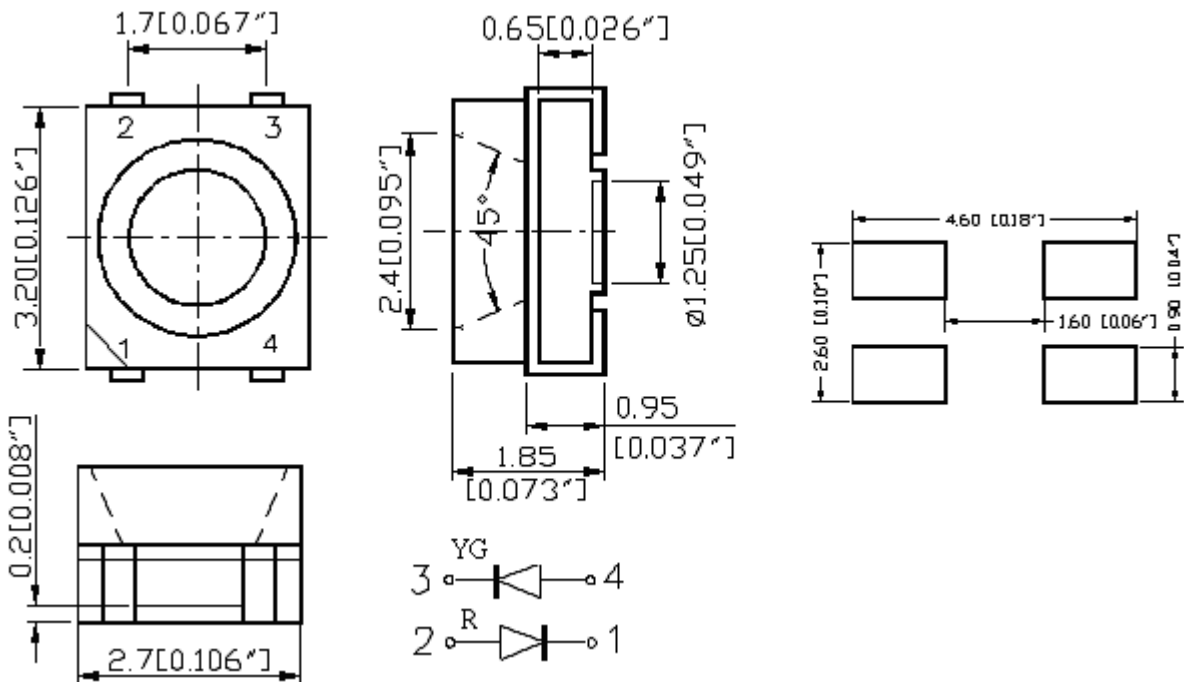


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Absolute Maximum Ratings(Ta=25°C)

Parameter	Symbol	Value		Unit
		R	YG	
Power dissipation	Pd	75	75	mW
Forward current	If	30		mA
Reverse voltage	Vr	5		V
Operating temperature range	Top	-40 ~+80		°C
Storage temperature range	Tstg	-40 ~+85		°C
Peak pulsing current (1/8 duty f=1kHz)	Ifp	125		mA

PACKAGING DIMENSIONS

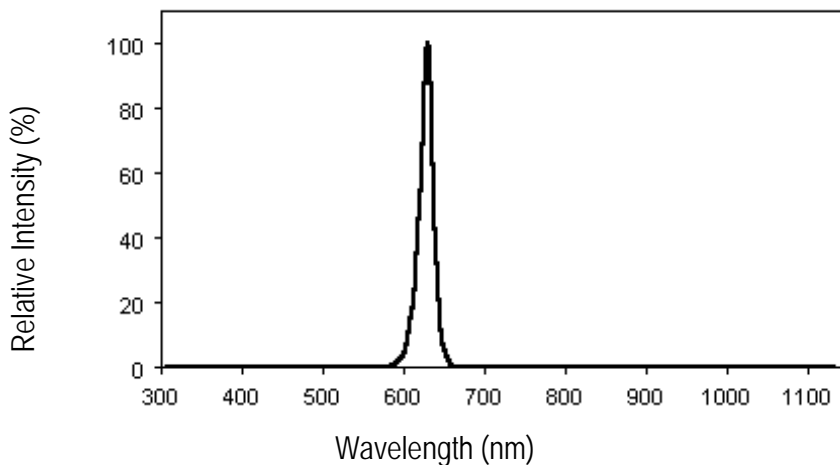




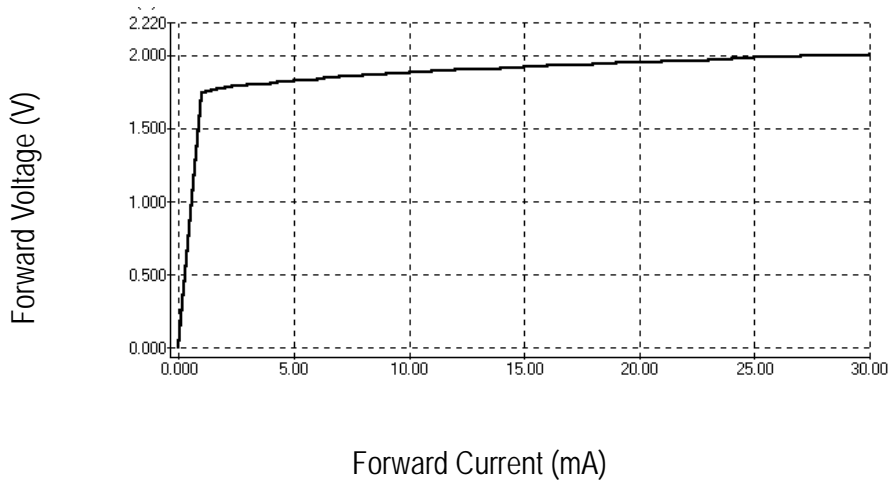
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OPTICAL CHARACTERISTIC CURVES (Orange)

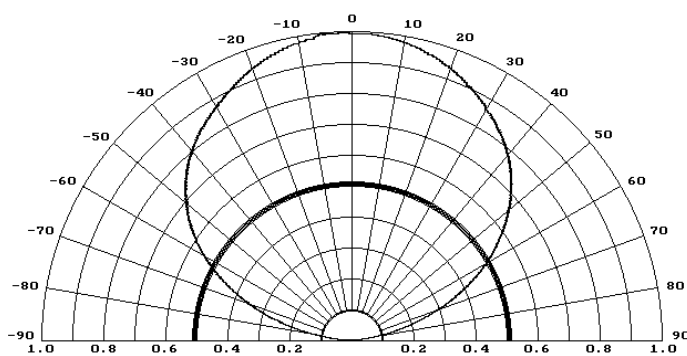
Relative Intensity vs. Wavelength



Forward Current vs. Forward Voltage



Directive Characteristics

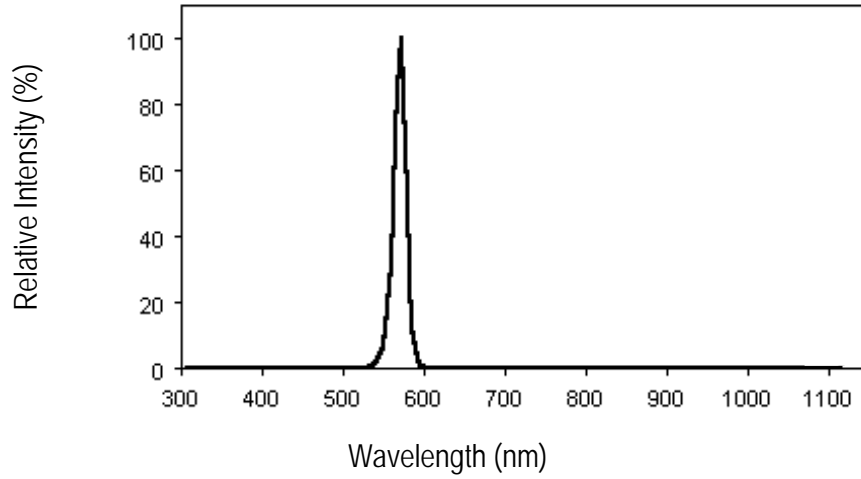




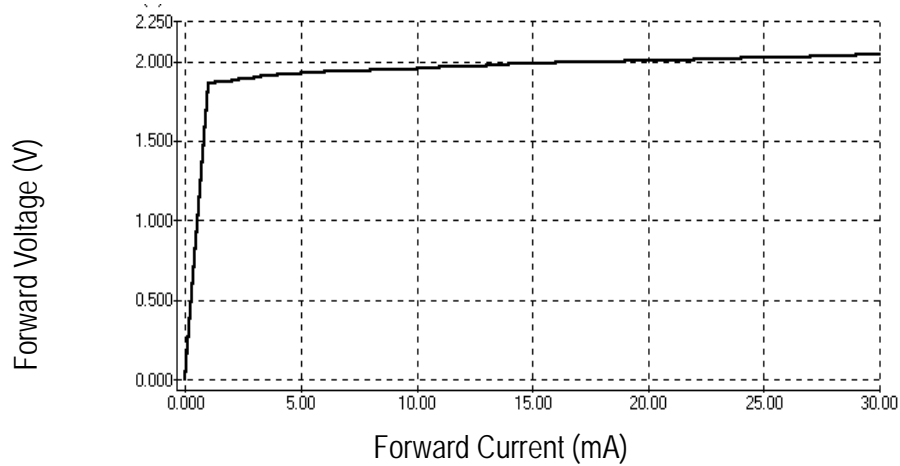
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OPTICAL CHARACTERISTIC CURVES (Green)

Relative Intensity vs. Wavelength



Forward Current vs. Forward Voltage



Directive Characteristics

