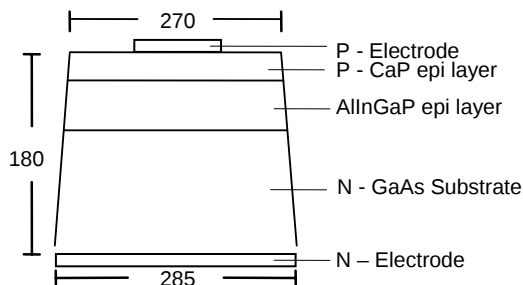
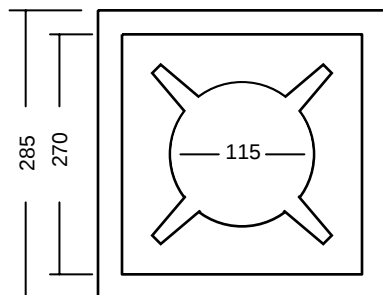


TCO12URU



❖ Outline Dimensions:



❖ Physical Structure:

Chip dimensions		Chip size	11 mil x 11 mil	285 μm x 285 μm
		Thickness	7 mil	180 μm
		Emission area	11 mil	270 μm
		Bonding pad	4.5 mil	115μm
Electrode	Top	P (anode)	Gold (Aluminum optional)	
	Backside	N (cathode)	Gold alloy	
Surface condition		Not frosted		

❖ Electro-Optical Characteristics:

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F = 20\text{mA}$		2.05	2.40	V
Wavelength	λ_P	$I_F = 20\text{mA}$	-	632	-	nm
	Hue	$I_F = 20\text{mA}$	619	624	629	
Spectral width at half height	$\Delta\lambda$	$I_F = 20\text{mA}$	-	20	-	nm
Reverse Voltage	V_R	$I_R = 10\mu\text{A}$	5	-	-	V
Luminous Intensity	I_V	I_1	95	-	-	mcd
		L	120	-	-	
		N	140	-	-	

❖ Note. Also available:

Chip size		Luminous intensity
mils	μm	mcd
9	210 x 210	80
9	210 x 210	95
9	210 x 210	120

RED