

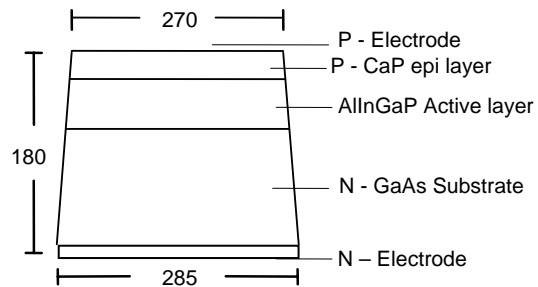
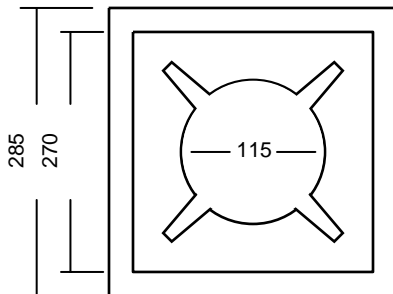
TCO12UOU



- ❖ Features:
 - AllInGaP/GaAs
 - MOVPE EPI wafer
 - Suitable for new creative products

- ❖ Typical Applications
 - Automotive Signal Lamps: Pedestrian Signs
 - Advertising Signs and Marquees
 - Industrial Products

❖ Outline Dimensions:



❖ Physical Structure:

Chip dimensions		Chip size	11 mil x 11 mil	285 μm x 285 μm
		Thickness	7.1 mil	180 μm
		Emission area	11 mil	270 μm
		Bonding pad	4.5 mil	115 μm
Electrode	Top	P (anode)	Gold (Aluminium optional)	
	Backside	N (cathode)	Gold alloy	
Surface condition		Not frosted		

❖ Electro-Optical Characteristics:

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F = 20\text{mA}$	-	1.95	2.40	V
Wavelength	λ_P	$I_F = 20\text{mA}$	-	612	-	nm
	Hue	$I_F = 20\text{mA}$	601	606	611	
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	E	150	-	-	mcd
		H	180	-	-	
		K	210	-	-	

❖ Note. Also available:

Chip size		Luminous intensity
mils	μm	mcd
9	210 x 210	130
9	210 x 210	150

ORANGE