

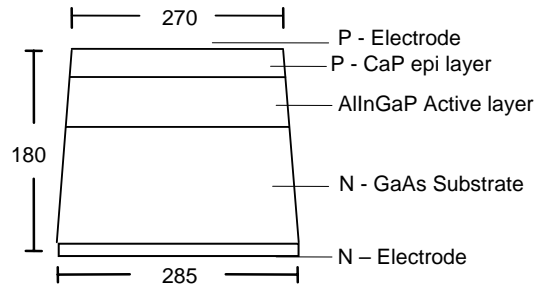
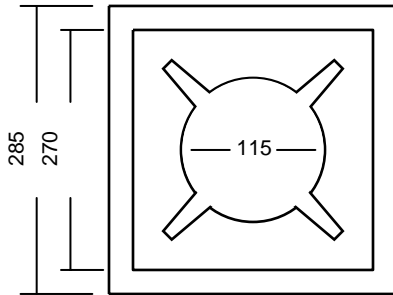
# TCO12UOR



- ❖ Features:
  - AllInGaP/GaAs
  - Snake-back free
  - Suitable for new creative products

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

❖ Outline Dimensions:



❖ Physical Structure:

Chip dimensions		Chip size	11 mil x 11 mil	285 $\mu$ m x 285 $\mu$ m
		Thickness	7.1 mil	180 $\mu$ m
		Emission area	11 mil	270 $\mu$ m
		Bonding pad	4.5 mil	115 $\mu$ m
Electrode	Top	P (anode)	Gold (Aluminium optional)	
	Backside	N (cathode)	Gold alloy	

❖ 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	$\lambda_P$	$I_F = 20\text{mA}$	-	620	-	nm
	Hue	$I_F = 20\text{mA}$	610	615	620	
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	$\mu$ m	mcd
9	210 x 210	130
9	210 x 210	150

RED-ORANGE