

# TCO12SRD

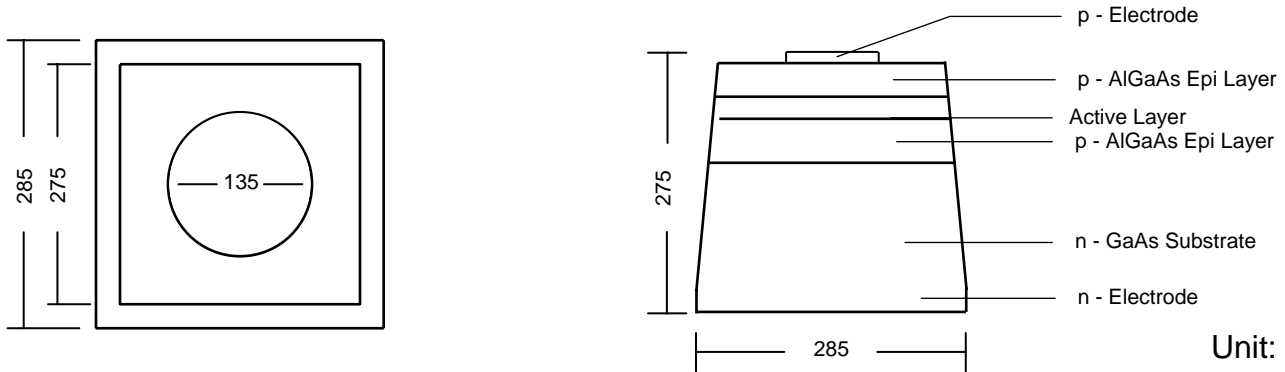
## ❖ Features:

- AlGaAs/GaAs Epi Wafer
- Double heterojunction structure

## ❖ Typical Applications:

- Lamp
- Display

## ❖ Outline Dimensions:



## ❖ Physical Structure:

Chip dimensions		Chip size	11 mil x 11 mil	285 $\mu\text{m}$ x 285 $\mu\text{m}$
		Thickness	11 mil	275 $\mu\text{m}$
		Emission area	11 mil	270 $\mu\text{m}$
		Bonding pad	5.3 mil	135 $\mu\text{m}$
Electrode	Top	P (anode)	Aluminium (Gold optional)	
	Backside	N (cathode)	Gold alloy	

## ❖ Electro-Optical Characteristics:

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	$V_F$	$I_F = 20\text{mA}$	-	1.85	2.00	V
Wavelength	$\lambda_P$	$I_F = 20\text{mA}$	-	660	-	nm
	Hue		-	640	-	
Spectral width at half height	$\Delta\lambda$	$I_F = 20\text{mA}$	-	20	-	nm
Reverse Current	$I_R$	$V_R = 5\text{V}$	-	-	10	$\mu\text{A}$
Reverse Voltage	$V_R$	$I_R = 10\mu\text{A}$	5.0	-	-	V
Luminous Intensity	$I_V$	$I_F = 20\text{mA}$	15	-	-	mcd

RED