

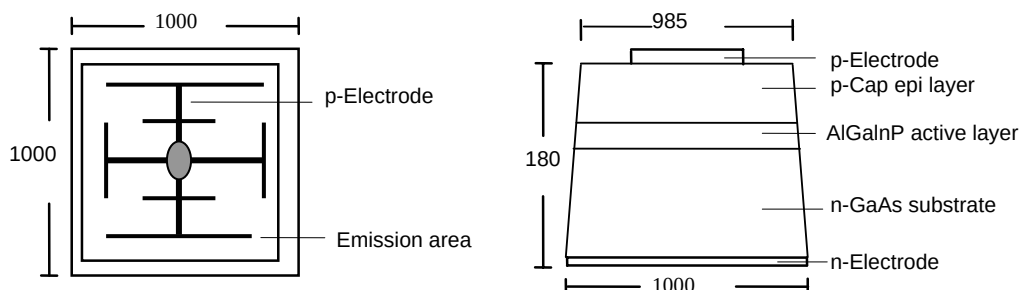
TCO-40UYU



- ❖ Features:
 - MOVPE Process Wafer
 - Suitable for new creative products

- ❖ Typical Applications
 - Traffic Signs Modules: Pedestrian Signs
 - Advertising Signs and Marquees
 - Industrial Products

❖ Outline Dimensions:



❖ Physical Structure:

Chip dimensions		Chip size	40mil x 40mil	1000 µm x 1000 µm
		Thickness	7.1 mil	180 µm
		Bonding pad	4.5 mil	115 µm
		Emission Area	39mil x 39mil	985µm x 985 µm
Electrode	Top	P (anode)	Gold (Aluminum optional) alloy	
	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	2.40	V
Wavelength	λ_P	$I_F = 20\text{mA}$	-	598	-	nm
	λ_D		589	594	599	
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	$I_F = 20\text{mA}$	200	-	-	mcd