

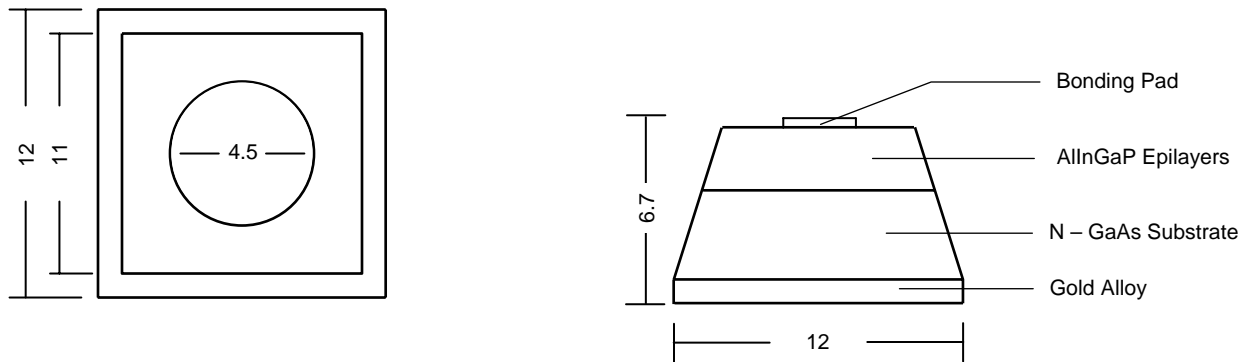
TCE12URU



❖ Features:

- AllnGaP/GaAs LED Chips
- Long operation life
- Low current application; low power consumption
- Indoor/Outdoor applications

❖ Outline Dimensions:



❖ Physical Structure:

Chip dimensions		Chip size	12 mil x 12 mil	305 μm x 305 μm
		Thickness	6.7 mil	170 μm
		Emission area	11 mil	279 μm
		Bonding pad	4.5 mil	115 μm
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	$I_F = 10\mu\text{A}$	1.30	-	-	V
		$I_F = 20\text{mA}$	-	1.95	2.40	
Wavelength	λ_P	$I_F = 20\text{mA}$	-	639	-	nm
	Hue	$I_F = 20\text{mA}$	626	631	636	
Spectral width at half height	$\Delta\lambda$	$I_F = 20\text{mA}$	-	20	-	nm
Reverse Current	I_R	$V_R = 10\text{V}$	-	-	100	μA
Luminous Intensity	I_v	A4	30	45	-	mcd
		A5	40	55	-	
		A6	50	70	-	

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