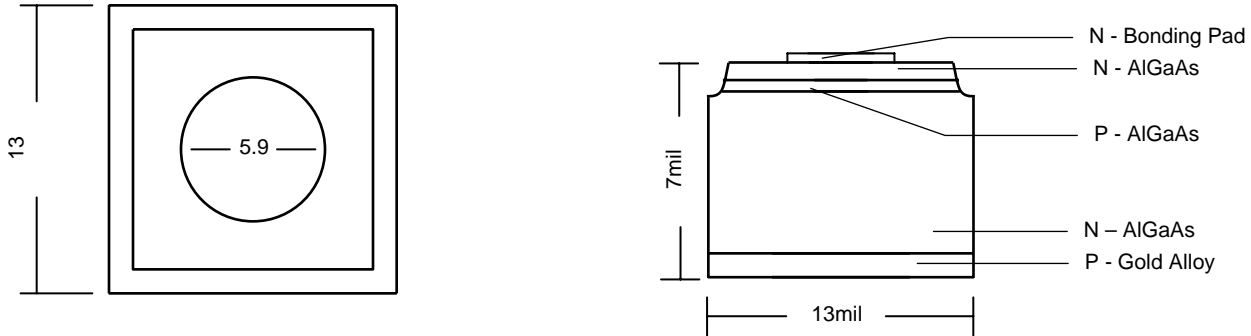


# TCM656-5



❖ Outline Dimensions:



❖ Physical Structure:

Chip dimensions		Chip size	13 mil x 13 mil	320 $\mu\text{m}$ x 320 $\mu\text{m}$
		Thickness	7 mil	180 $\mu\text{m}$
		Bonding pad	5.9 mil	150 $\mu\text{m}$
Electrode	Top	N (cathode)	Gold alloy	
	Backside	P (anode)	Gold alloy	

❖ Electro-Optical Characteristics:

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	$V_F$	$I_F = 20\text{mA}$	-	1.80	2.40	V
Reverse Voltage	$V_R$	$I_R = 10\mu\text{A}$	5	-	-	V
Peak Wavelength	$\lambda_P$	$I_F = 20\text{mA}$	651	656	661	nm
Spectral Bandwidth	$\Delta\lambda$	$I_F = 20\text{mA}$	-	25	-	nm
Radiant Flux	$P_O$	$I_F = 20\text{mA}$	1.1	1.3	-	mW