

Blue LED Chip

SL-MBIT0320-[V#W#L#]

- MOVPE epi-wafer of InGaN alloy films
- Normal type chip (brightness enhanced with patterned substrate)
- ※ All samples are 100% tested and sorted, and user can consult about special specifications.

■ ABSOLUTE MAXIMUM RATINGS (Ta = 25 °C)

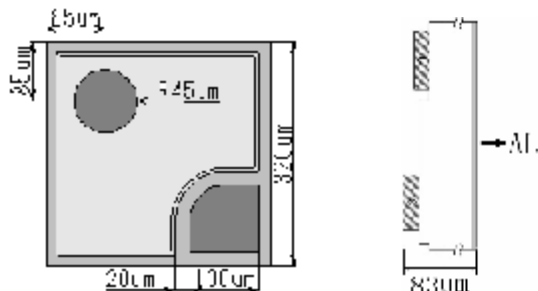
Item	Symbol	Maximum Rating	Unit
DC Forward Current	I _F	30	mA
Pulse Forward Current	I _{FP}	100	mA
Reverse Voltage	V _R	5	V
Operating Temperature	T _{opr}	-30 to +85	°C
Storage Temperature	T _{stg}	-40 to +100	°C
ESD sensitivity (HBM) *	V _{ESDS}	2000	V

*ESD testing result is based on statistic measurements. Seller does not give assurance for every chip.

■ OPTICAL AND ELECTRICAL CHARACTERISTICS (Ta = 25 °C)

Item	Symbol	Condition		Min	Typ	Max	Unit
Forward Voltage	V _F	I _F =20mA	V ₁	2.8	2.9	3.0	V
			V ₂	3.0	3.1	3.2	
			V ₃	3.2	3.3	3.4	
			V ₄	3.4	3.5	3.6	
Reverse Current	I _R	V _R =5V		-	-	1	μA
Wavelength	λ _D	I _F =20mA	W ₁	465	-	467.5	nm
			W ₂	467.5	-	470	
			W ₃	470	-	472.5	
			W ₄	472.5	-	475	
Luminous Intensity	I _v	I _F =20mA	I ₁	100	-	110	mcd
			I ₂	110	-	120	
			I ₃	120	-	130	
			I ₄	130	-	140	
			I ₅	140	-	150	
			I ₆	150	-	160	
			
			I ₁₅	240	-	250	

■ CHIP DESCRIPTION



■ MECHANICAL SPECIFICATION

Description	Dimension
Emission Area	260μm x 260μm
Bottom Area	320μm x 320μm (±10μm)
Chip Thickness	83μm (±5μm)
N-pad	Φ=100μm
P-pad	Φ=90μm
Electrodes Spacing	20μm
Electrode material	AL