

Tops 100 Power Pure White LED

SLQ100WBP

VER. 1

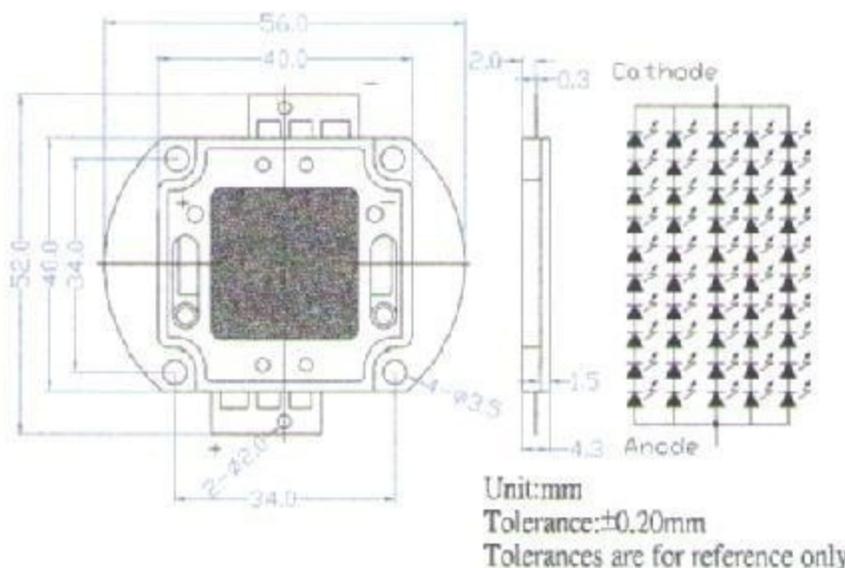
■ Features

- High-power LED
- Long lifetime operation
- Typical viewing angle : 140deg
- RoHS compliant
- Possible to attach to heat sink directly without using print circuit board.

■ Applications

- Indoor & outdoor lighting
- Stage lighting
- Reading lamps
- Display cases, furniture illumination, marker
- Architectural illumination
- Spotlights

■ Outline Dimension



■ Absolute Maximum Rating

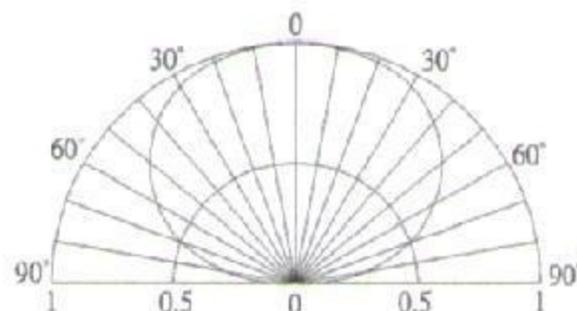
(Ta=25°C)

Item	Symbol	Value	Unit
DC Forward Current *1	I_F	3,500	mA
Pulse Forward Current*2	I_{FP}	4,000	mA
Reverse Voltage	V_R	50	V
Power Dissipation*1	P_D	133,000	mW
Operating Temperature	T_{opr}	-30 ~ +85	°C
Storage Temperature	T_{stg}	-40 ~ +100	°C
Lead Soldering Temperature	T_{sol}	260°C/5sec	-

*1, Power dissipation and forward current are the value when the module temperature is set lower than the rating by using an adequate heat sink.

*2, Pulse width Max.10ms Duty ratio max 1/10

■ Directivity



■ Electrical -Optical Characteristics

(Ta=25°C)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward Voltage	V_F	$I_F=3000mA$	29	34	38	V
DC Reverse Current	I_R	$V_R=50V$	-	-	100	μA
Luminous Flux	Φ_v	$I_F=3000mA$	5500	7200	-	lm
Color Temperature	CCT	$I_F=3000mA$	-	6500	-	K
Chromaticity Coordinates*	x	$I_F=3000mA$	-	0.31	-	
	y	$I_F=3000mA$	-	0.34	-	
50% Power Angle	2θ _{1/2}	$I_F=3000mA$	-	140	-	deg

Note: Don't drive at rated current more than 5s without heat sink for High Power series.

* Tolerance of chromaticity coordinates is ±10%, * Tolerance of Luminous Flux is ±20%