Multi-Chip Super Flux White LED

OSW37FZ2C1P

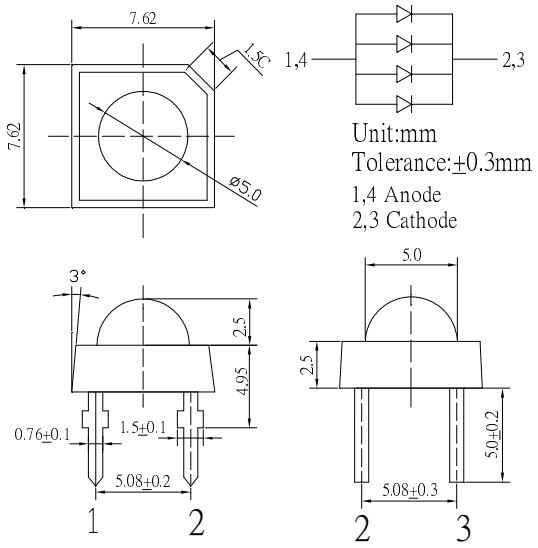
▪Features

- High Luminous Super Flux Output
- 5 ø Standard Directivity
- Long Lifetime Operation
- Superior Weather-resistance
- UV Resistant Epoxy
- Water Clear Type

▪Applications

- Automotive Dashboard Lighting
- Small Area Illuminations
- Back Lighting
- Other Lighting

▪Outline Dimension

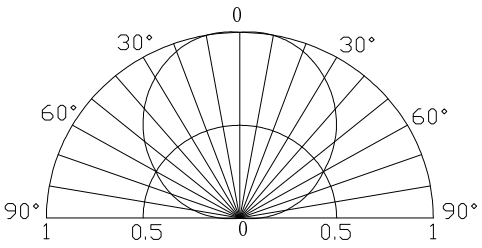


▪Absolute Maximum Rating (Ta=25℃)

Item	Symbol	Value	Unit
DC Forward Current	I_F	100	mA
Pulse Forward Current*	I_{FP}	120	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	380	mW
Operating Temperature	Topr	-30 ~ +85	℃
Storage Temperature	Tstg	-40 ~ +100	℃
Lead Soldering Temperature	Tsol	260℃/5sec	-

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

▪Directivity



▪Electrical -Optical Characteristics (Ta=25℃)

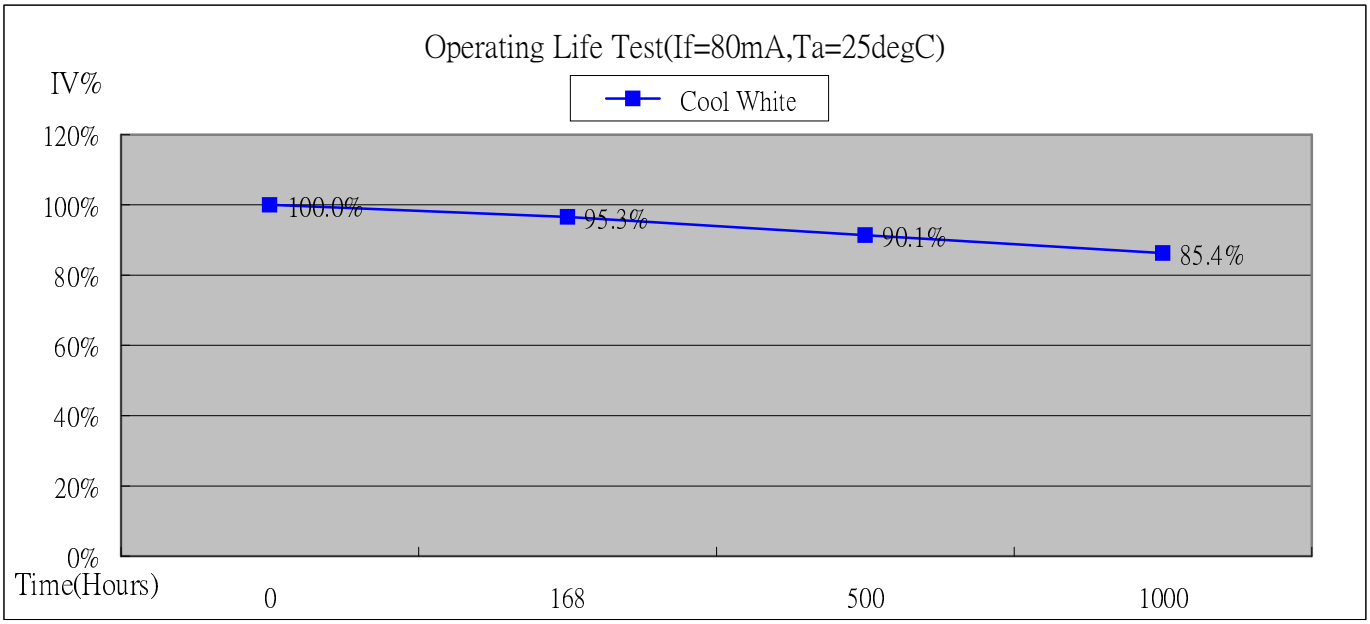
Item	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward Voltage	V_F	I_F=80mA	2.9	3.2	3.8	V
DC Reverse Current	I_R	V_R=5V	-	-	40	μA
Luminous Intensity*	Iv	I_F=80mA	12000	15000	-	mcd
Color Temperature	CCT	I_F=80mA	-	5500	-	K
Chromaticity Coordinates*	x	I_F=80mA	-	0.33	-	
	y	I_F=80mA	-	0.36	-	
50% Power Angle	$2\theta_{1/2}$	I_F=80mA	-	120	-	deg

*1 Tolerance of chromaticity coordinates is ±10%

*2 Tolerance of luminous intensity is ±15%

ATTENTION
OBSERVE PRECAUTIONS
ELECTROSTATIC
SENSITIVE DEVICES

OPERATION LIFE TEST LUMINANCE RATE CURVE



*Burn-in condition: 80mA

*Projection of Statistical Average Light Output Degradation Performance for LED Technology Extrapolated from OptoSupply QA Dept. Test Data.

*According to OptoSupply outgoing Packaged Products Specification

*MTBF:100,000hrs, 90% Confidence (A Failure is Any LED Which is Open, shorted or fails to Emit Light)

*The Projected Data is Base on The Feature of LED Itself Under Normal Operation Conditions.

*Any Improper Circuit Design or External Factors Might Cause a Different Result.