OptoSupply
Light It Up

2.0x1.25x0.8mm Chip SMD

OSXX0805C1F-Z

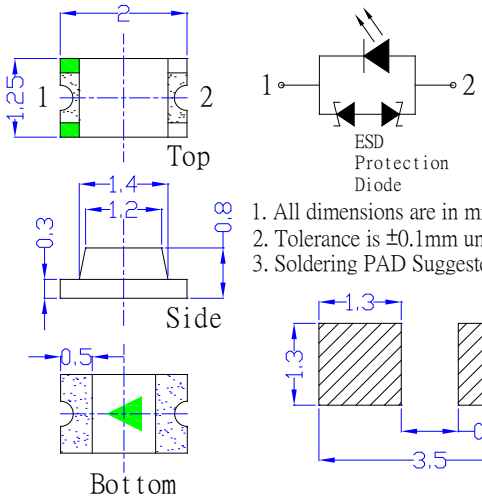
■Features

- Single chip
- 2.0x1.25x0.8mm(0805) standard package.
- Suitable for all SMT assembly methods.
- Compatible with infrared and vapor phase reflow solder process.
- This product doesn't contain restriction Substance, comply with ROHS standard.
- Compatible with automatic placement equipment.
- Superior ESD protection
- Value of Electrostatic Discharge Threshold (HBM):8000V
- Water clear type

■Applications

- Automotive : Dashboards, stop lamps, turn signals.
- Backlighting : LCDs, key pads, advertising.

■Outline Dimension



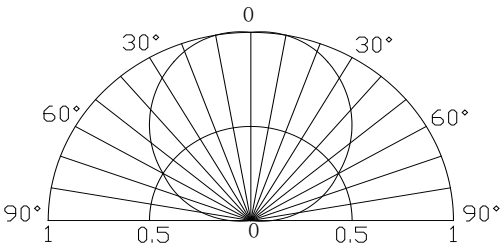
1. All dimensions are in millimeters;
2. Tolerance is ±0.1mm unless otherwise noted;
3. Soldering PAD Suggested:

■Absolute Maximum Rating (Ta=25℃)

Item	Symbol	Value		Unit
		W5/B5/G5	Y5/O5/R5	
DC Forward Current	I_F	30	30	mA
Pulse Forward Current#	I_{FP}	100	100	mA
Reverse Voltage	V_R	5	5	V
Power Dissipation	P_D	108	78	mW
Operating Temperature	Topr	-40 ~ +85		℃
Storage Temperature	Tstg	-40~ +85		℃
Lead Soldering Temperature	Tsol	260℃/10sec		-

#Pulse width Max 0.1ms, Duty ratio max 1/10

■Directivity



■Electrical -Optical Characteristics (Ta=25℃)

Part Number	Color			V_F (V)*			I_R(μA)	Iv(mcd)*			λD(nm)/CCT(K)*			2θ1/2(deg)
				Min.	Typ.	Max.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Typ.
				I_F=20mA			V_R=5V	I_F=20mA						
OSW50805C1F-Z	White	W5		2.8	3.1	3.6	100	300	400	-	7000-10000K			120
OSB50805C1F-Z	Blue	B5		2.8	3.1	3.6	100	80	120	-	460	465	470	120
OSG50805C1F-Z	True Green	G5		2.8	3.3	3.6	100	400	500	-	510	515	520	120
OSY50805C1F-Z	Yellow	Y5		1.8	2.1	2.6	100	100	120	-	585	590	595	120
OSO50805C1F-Z	Orange	O5		1.8	2.1	2.6	100	80	100	-	600	605	610	120
OSR50805C1F-Z	Red	R5		1.8	2.1	2.6	100	100	120	-	620	625	630	120

*1 Tolerance of measurements of chromaticity coordinate is ±10%
*2 Tolerance of measurements of dominant wavelength is ±1nm
*3 Tolerance of measurements of luminous intensity is ±15%
*4 Tolerance of measurements of forward voltage is±0.1V

LED & Application Technologies

ISO 9001: 2008

RoHS Compliant EU 2002/95/EC

REACH The new EU chemicals legislation

ATTENTION
OBSERVE PRECAUTIONS
ELECTROSTATIC
SENSITIVE DEVICES

■ Optical and Electrical Characteristics

TYPICAL ELECTRICAL/OPTICAL CHARACTERISTIC CURVES