OptoSupply
Light It Up

Current Regulative LED
8mm Round LED
OSXXXX8B31B-CRLED14

CURRENT REGULATIVE LED

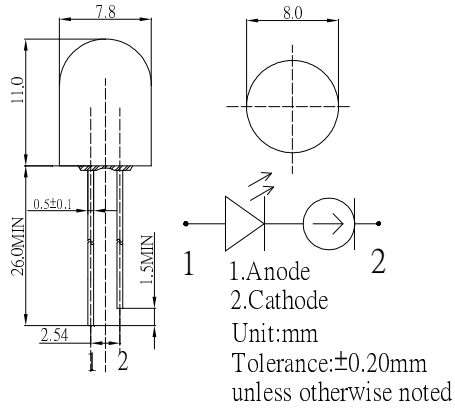
CRLED

- CRLED is LED which supplies constant current to keep LED Intensity Consistency even when power supply voltage fluctuations or load impedance fluctuations occur.
- CRLED is used with current stabilization and current limiting

■Features

- High Luminous LEDs / 8mm Round Standard Directivity
- Superior Weather-resistance / UV Resistant Epoxy
- Water Clear Type

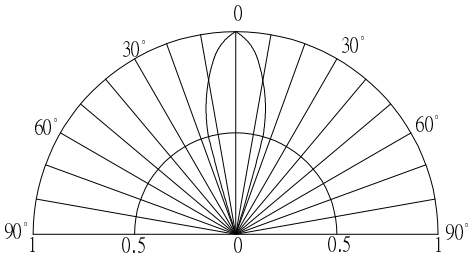
■Outline Dimension



■Absolute Maximum Rating (Ta=25℃)

Item	Symbol	Value	Unit
DC Forward Voltage	V_F	20	V
Power Dissipation	P_D	320	mW
Operating Temperature	Topr	-30 ~ +85	℃
Storage Temperature	Tstg	-40~ +100	℃
Lead Soldering Temperature	Tsol	260℃/5sec	-

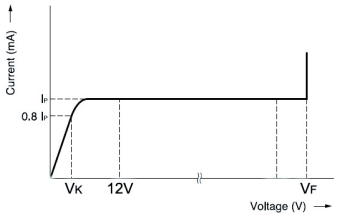
■Directivity



■Electrical -Optical Characteristics (Ta=25℃)

Part Number	Color		V_F(V)		I_F (mA)			I_R(μA)	Iv(mcd)*			λD(nm)*			2θ1/2(deg)
			Min.	Max.	Min	Typ.	Max.	Max..	Min.	Typ.	Max.	Min.	Typ.	Max.	Typ.
					V_F =12V			V_R=8V	V_F =12V						
OSW5DK8B31B-CRLED14	White		5.5	20		14	-	10	-	10000	-	X=0.27, Y=0.28			30
OSM5DK8B31B-CRLED14	Warm White		5.5	20		14	-	10	-	7000	-	X=0.45, Y=0.41			30
OSB5SA8B31B-CRLED14	Blue		5.5	20		14	-	10	-	5800	-	465	470	475	30
OSG5DA8B31B-CRLED14	Pure Green		5.5	20		14	-	10	-	10000	-	520	525	530	30
OSY5PA8B31B-CRLED14	Yellow		5	20		14	-	10	-	7000	-	585	590	595	30
OSO5PA8B31B-CRLED14	Orange		5	20		14	-	10	-	7000	-	600	605	610	30
OSR5PA8B31B-CRLED14	Red		5	20		14	-	10	-	7000	-	620	625	630	30

*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



Explanation of terms
I_P :Pinch-off current at 12V
V_K:Voltage which produces 0.8Ip or greater current
V_F Breakdown voltage

■Applications

- Electronic Signs And Signals/ Small Area Illuminations
- Back Lighting/ Toys/ Other Lighting

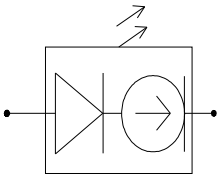
LED & Application Technologies

ISO 9001: 2008

ATTENTION
OBSERVE PRECAUTIONS
ELECTROSTATIC
SENSITIVE DEVICES

■Typical Applications

1 : Single LED



2 : Multi- LEDs in series