OptoSupply
Light It Up

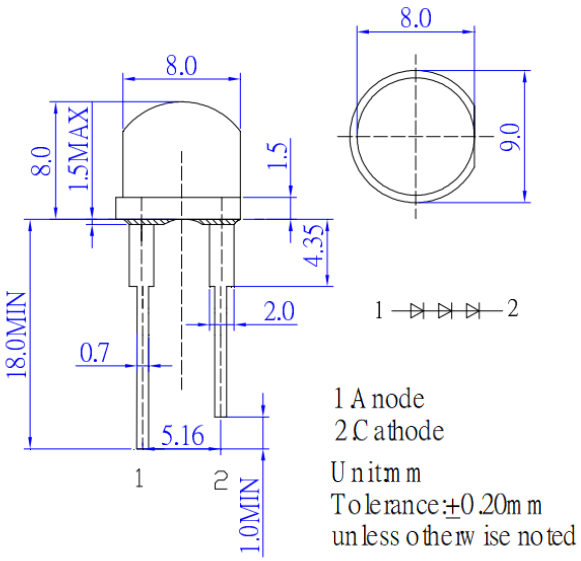
Premium Power 8mm Straw 3 in 1 Red LED

OS5RE387E1U

■Features

- High Luminous LEDs
- 8mm Straw Standard Directivity
- UV Resistant Epoxy
- Water Clear Type

■Outline Dimension



■Applications

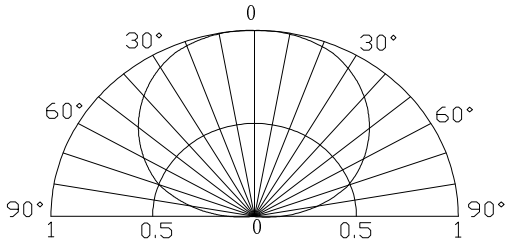
- Backlighting (Illuminated advertising, general lighting, etc)
- Portable (flashlight, bicycle)
- Interior and exterior automotive lighting
- Other Lighting

■Absolute Maximum Rating (Ta=25℃)

Item	Symbol	Value	Unit
DC Forward Current	I_F	50	mA
Pulse Forward Current#	I_{FP}	90	mA
Reverse Voltage	V_R	15	V
Power Dissipation	P_D	486	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*1	V_F	I_F=40mA	5.7	6.6	7.8	V
DC Reverse Current	I_R	V_R=15V	-	-	10	μA
Luminous Flux*2	Φv	I_F=40mA	15	20	-	lm
Domi. Wavelength*3	λ_D	I_F=40mA	620	625	630	nm
50% Power Angle	$2\theta_{1/2}$	I_F=40mA	-	140	-	deg

*1 Tolerance of measurements of forward voltage is ±0.1V
*2 Tolerance of measurements of Luminous Flux is ±15%
*3 Tolerance of measurements of Domi. wavelength is ±1nm

InGaN LED

TYPICAL ELECTRICAL/OPTICAL CHARACTERISTIC CURVES