OptoSupply
Light It Up

5mm Infrared LED

OSI5NA5B43A

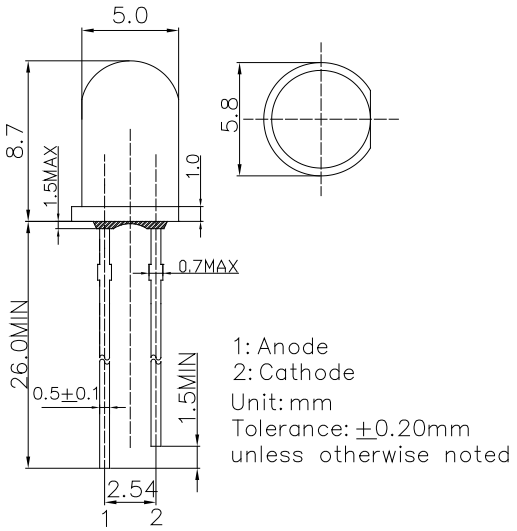
■Features

- High Radiant Power LEDs
- 5mm Standard Directivity
- UV Resistant Epoxy
- Pale Red Brown Transparent

■Applications

- IrDA
- Encoder
- Data Communication

■Outline Dimension

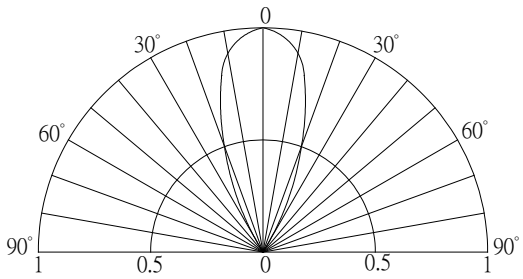


■Absolute Maximum Rating (Ta=25℃)

Item	Symbol	Value	Unit
DC Forward Current	I_F	100	mA
Pulse Forward Current#	I_{FP}	1000	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	160	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=100mA	-	1.35	1.60	V
DC Reverse Current	I_R	V_R=5V	-	-	10	μA
Peak Wavelength	λ_p	I_F=100mA	940	950	960	nm
Radiant Power*	Po	I_F=100mA	-	30	-	mW
Radiant Intensity*	Ie	I_F=100mA	-	35	-	mW/Sr
50% Power Angle	$2\theta_{1/2}$	I_F=100mA	-	40	-	deg

*1 Tolerance of measurements of peak wavelength is ±1nm

*2 Tolerance of measurements of radiant power is ±15%

*3 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