

# Infrared LED 8MM

## Product Description



<b>Part No.</b>	8W2JCN9-JW852-2.4-850
<b>Chip Material</b>	GaAs/ GaAs
<b>Emitting Color</b>	Infrared emission Water clear, light blue, dark blue, black, etc.
<b>Lens Type</b>	
<b>Chip Brand</b>	Sanan, Epistar, TYNTEK, Optotech, Orient(ORT)

<b>Features:</b>	<b>Applications:</b>
√ Low Current Drive.	CCTV cameras
√ Low Power Consumption.	Surveillance systems
√ High Temperature Resistance Epoxy Resin.	Infrared illumination for cameras
√ Famous Brand Chip.	Machine vision systems
√ 99.9% Pure Gold Thread.	Night vision system
√ Long Service Life.	Intruder Alarm
	More.....



## Electrical/Optical Characteristics at TA=25°C

Parameter	Symbol	Min.	Typ.	Max.	Units	TestConditions
Forward Voltage	VF	1.4	1.5	2.0	V	IF=20-50mA
Dominate Wavelength	$\lambda_D$	830	850	870	nm	IF=20-50mA
Spectral Line Half-width	$\Delta\lambda$	--	20	--	nm	IF=20-50mA
Reverse Current	IR	--	--	10	uA	VR=5V
Radiant Intensity		8		400	mW/sr	IF=20-50mA
Tenninal Capacitance	Ct	--	20	--	pF	F=1MHZ
Viewing Angle	2 $\theta$ 1/2	15°		120°	deg	

## Absolute Maximum Ratings at TA=25°C

Parameter	Symbo	Maximum Rating	Units
Power dissipation	Pd	100	mW
Aerage Forward Current	IF	50	mA
Peak Forward Current(Duty=0.1,1KHZ)	IpF(Peak)	1	A
Reverse Voltage	VR	5 V	
Operating Temperature	Topr	-40°C To +80°C	
Storage Temperature	Tstg	-40°C To +80°C	
Lead Solder Temperature(2)	Tsol	260°C for 3 seconds	

### Note:

- (1)1/10 Duty Cycle, 0.1ms Pulse Width.
- (2)3mm below package base.
- (3)The production accord with the request of ROHS.