

DONGGUAN NANJING ELECTRONICS LTD.,

Long life GaN/GaN LED (White Mist Body Emits Red and Green Light)

Features:

- ♦ Standard T-1 diameter package .
- ♦ Reliable and Rugged.
- ♦ Package:1000pcs/Bag
- ♦ General Purpose Leads
- ♦ The product itself will remain within RoHS compliant Version.

Descriptions:

- ♦ The series is specially designed for applications requiring general brightness.
- ♦ The LED lamps are available with Red & Jade Green colors, intensities.

Applications:

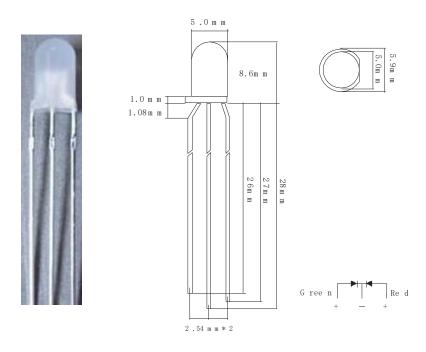
- ♦ PDA .MP3,DVD
- ♦ Communication
- ♦ Move Telephone.
- ♦ Computer.
- ♦ Recharge
- ♦ Gift
- ♦ Other



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Package Dimension:



Part NO.	CHIP Material	Colloid Color	Colloid Material
NJ-DIP-05WMTRGD	InGaAIP/ GaAsP	Dispersant	Ероху

Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is \pm 0.25 mm (.010") unless otherwise noted.
- 3. Protruded resin under flange is 1.00 mm (.039") max.
- 4. Specifications are subject to change without notice.



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Absolute Maximum Ratings (Ta = 25° C)

Parameter	Symbol	Absolute maximum Rating	Unit
Max Power Dissipation	P _M	80	mW
Max Continuous Forward Current	I _{FM}	20	mA
Max Reverse Voltage	V_{RM}	5	V
Peak Forward Current	I _{FP}	75	mA
Lead Soldering Temperature/Time	T _{SOL}	260/≤3S	°C/S
Operating Temperature Range	T _{OPR}	-25~+85	$^{\circ}$
Storage Temperature Range	T _{STR}	-30~+100	$^{\circ}$

Typical Electrical & Optical Characteristics(Ta=25°)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
Luminous Intensity	l _v	200/30	300/50	500/80	mcd	I _F =20mA
Viewing Angle	2Ø1/2	/	40	/	deg	I⊧=20mA
Peak Wave Length	λр	/	630/570	/	nm	I _F =20mA
Dominant Wave Length	λd	620/565	/	640/575	nm	I _F =20mA
Spectral Width at half height	Δλ	/	30	/	nm	I _F =20mA
Forward Voltage	V _F	1.8/2.0	2.0/2.2	2.2/2.4	V	I₅=20mA
Reverse Current	I _R	1	/	€30	μA	VR=5V

Notes:

- 1. Through aging experiment certificate: This LED at normal work under condition: Then IF=20 mA, VF=2.5 V, the service life is 3-100,000 hours.
- 2. Press anti-electrostatic weld an operation(connect a ground of line, wear static electricity wreath and wear a pure cotton finger set).
- 3. The LED product that our company provide can order to do according to customer's need, the related technique parameter will take place variety, the detailed circumstance please consult with a relevant personnel of my company.

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RELIABILITY

Test Item	Standard Test Method	Test Conditions	Note	Number of Damaged
Resitance to Soldering Heat (Reflow Soldering)	JEITA ED-4701 300 301	Tsld=260°C, 10sec. (Pre treatment 30°C,70%,168hrs)	2times	0/50
Solderability (Reflow Soldering)	JEITA ED-4701 300 303	Tsld=215±5°C, 3sec. (Leader Soldr)	1time Over 95%	0/50
Thermal Shock	JEITA ED-4701 300 307	-40°C~100°C 5mim.5min.	100cycles	0/50
Temperature Cycle	JEITA ED-4701 100 105	-40°C~25°C~100°C~25°C 30min.5min.30min.5min.	100cycles	0/50
Moisture Resistance Cycle	JEITA ED-4701 200 203	25°C~65°C~-10°C 90RH 24hrs/1cycle	10 cycles	0/50
High Temperature Storage	JEITA ED-4701 200 201	Ta=100°C	1000hrs	0/50
Temperature Humidity Storage	JEITA ED-4701 100 103	Ta=60°C, 90%RH	1000hrs	0/50
Low Temperature Storage	JEITA ED-4701 200 202	Ta=-40°C	1000hrs	0/50
Steady State Operating Life		Ta=25°C,IF=20mA	1000hrs	0/50
Steady State Operating Life of High Temperature		Ta=85°C,IF=5mA	1000hrs	0/50
Steady State Operating Life of High Humidity Heat		60°C, 90%RH,IF=15mA	500hrs	0/50
Steady State Operating Life of Low Temperature		Ta=30°C,IF=20mA	1000hrs	0/50
Drop		H=75cm	3 cucles	0/50
Substrate Bending	JEITA ED-4702	3mm,5±1sec.	1 time	0/50
Stick	JEITA ED-4702	5N,10±1sec.	1time	0/50

■ Application Notes

• Operating Temperature: -25 to 85 $^{\circ}$ C • Storage Temperature: -40 to 100 $^{\circ}$ C

• Soldering Temperature: 260°C, t<5 sec; Distance From Solder Joint To Case >2mm; Please Avoid Any Stress To Led Lamp During Soldering;

• Humidity Range: 50-70%

• LED is ESD Sensitive. Please observe appropriate precautions during handling and processing.