

## 5.0mm Round Type LED Lamps

MODEL NO : IE-5G4UT-S44

### ★Features:

- Low power consumption;
- High efficiency and high performance;
- Choice of various viewing angles;
- Reliable and robust.

### ★Lens Color:

- Color Diffused       Color Transparent  
 Water Clear       White Diffused

### ★Descriptions:

- The series is specially designed for applications requiring higher brightness.
- The led lamps are available with different Colors, intensities, epoxy colors, etc.

### ★Applications:

- Indicators      ● Home electric appliance
- Automotive      ● Sign & Signal.

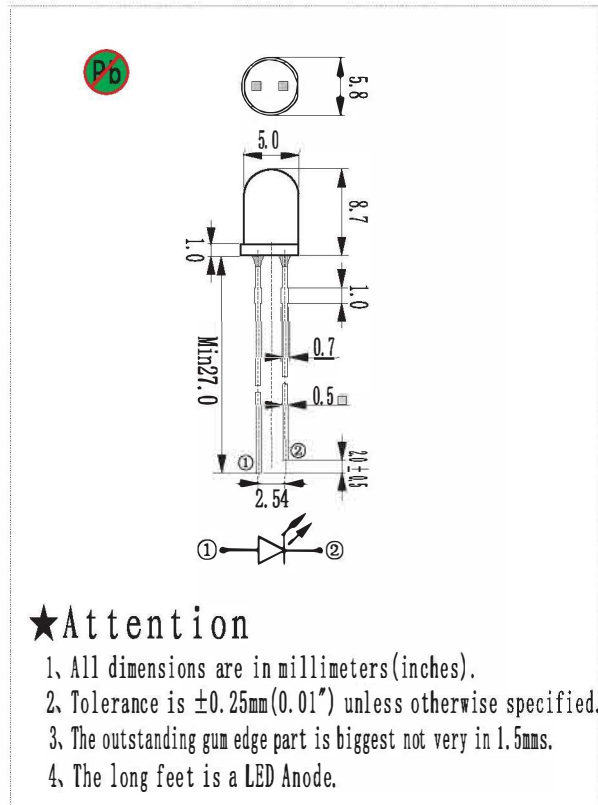
### ★Absolute Maximum Ratings (Ta=25°C):

Parameter	Symbol	Rating	Unit	Remark
Forward Current	I <sub>F</sub>	30	mA	—
Peak Forward Current	I <sub>FP</sub>	100	mA	1/10 Duty Cycle
Reverse Voltage	V <sub>R</sub>	5	V	—
Operating Temperature	T <sub>OPR</sub>	-25 ~ +85	°C	—
Storage Temperature	T <sub>STG</sub>	-40 ~ +100	°C	—
Soldering Temperature	T <sub>SO1</sub>	260	°C	≤3 seconds
Power Dissipation	P <sub>d</sub>	60	mW	—

### ★Electronic Optical Characteristics (Ta=25°C):

Part Number	Emitting Color	V <sub>F</sub> (V)			I <sub>V(mcd)</sub>		I <sub>r</sub> (μA) VR=5V	λ <sub>d</sub> (nm)	Δλ(nm)	Viewing Angle 2θ <sub>h</sub> (°)
		I <sub>F</sub> =20mA			I <sub>F</sub> =20mA					
		Min	Typ	Max	Typ	Max				
IE-SG4UT-S44	Pure Green	2.6	2.9	3.4	10000	15000	<10	515-525	25	30°

### ★Package Dimension:



### ★Attention

1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.25mm (0.01") unless otherwise specified.
3. The outstanding gum edge part is biggest not very in 1.5mm.
4. The long feet is a LED Anode.

★Elucidation: =Pb free Soldering Application, Pb<1000ppm (RoHS-Compliant)

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### ■ Reliability Performance

#### Test Items And Result

Test Classification	Test Item	Test Conditions	Test Duration	Sample Size	AC/RE
Life Test	Room Temperature DC Operating Life Test	Ta=25°C±5°C, I <sub>f</sub> =20mA	1000hrs	22 pcs	0/1
Environment Test	Thermal Shock Test	100°C±5°C 5min ↑↓ -40°C±5°C 5min.	100 cycles	22 pcs	0/1
	Temperature Cycle Test	100°C±5°C 30min ↑↓5min -40°C±5°C 30min.	100 cycles	22 pcs	0/1
	High Temperature & High Humidity Test	85°C ±5°C/85% RH IF=5mA	1000hrs	22 pcs	0/1
	High Temperature Storage	Ta=100°C ±5°C	1000hrs	22 pcs	0/1
	Low Temperature Storage	Ta=-40°C ±5°C	1000hrs	22 pcs	0/1
Mechanical Test	Resistance to Soldering Heat	Temp=260°C max T=5sec max	1times	22 pcs	0/1
	Lead Integrity	Load 2.5N(0.25kgf) 0° ~ 90° ~0°	3times	22 pcs	0/1

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### RELATIVE INTENSITY vs WAVELENGTH

