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## NTE3000 Light Emitting Diode Water Clear, High Efficiency Red 1.6mm Ball Head

**Features:**

- Miniature Butterfly LED Bulb
- Water Clear Lens

**Absolute Maximum Ratings:** ( $T_A = +25^{\circ}\text{C}$  unless otherwise specified)

Power Dissipation, $P_D$ .....	100mW
Peak Forward Current, $I_{FM}$ .....	100mA
Continuous Forward Current, $I_F$ .....	20mA
Derating Linear from $+30^{\circ}\text{C}$ .....	0.8mA/ $^{\circ}\text{C}$
Reverse Voltage, $V_R$ .....	5V
Operating Temperature Range, $T_{opr}$ .....	$-20^{\circ}$ to $+80^{\circ}\text{C}$
Storage Temperature Range, $T_{stg}$ .....	$-30^{\circ}$ to $+100^{\circ}\text{C}$
Lead Temperature (During Soldering, 1.6mm from Body, 5sec Max), $T_L$ .....	$+260^{\circ}\text{C}$

**Electrical Optical Characteristics:** ( $T_A = +25^{\circ}\text{C}$  unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Luminous Intensity	$I_V$	$I_F = 20\text{mA}$	2600	-	3000	mcd
View Angle of Half Power	$2 \theta_{1/2}$		-	20	-	deg
Peak Emission Wavelength	$\lambda_p$		620	625	630	nm
Forward Voltage	$V_F$	$I_F = 20\text{mA}$	2.0	-	2.2	V

Note 1.  $I_{FP}$  Conditions: Pulse Width  $\leq 100\mu\text{s}$ , Duty Cycle  $\leq 1\%$

Rev. 5-21



