



ELECTRONICS, INC.  
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## NTE3163, NTE3164, NTE3165 Light Emitting Diode – 1.2mm x 5.9mm

**Features:**

- Lead Frame Type w/Diffused Lens:
  - NTE3163 (Red, GaP/GaP)
  - NTE3164 (Green, GaP/GaP)
  - NTE3165 (Yellow, GaAsP/GaP)

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

Power Dissipation, $P_D$ .....	70mW
Continuous Forward Current, $I_F$ .....	25mA
Reverse Voltage, $V_R$ .....	3V
Operating Temperature Range, $T_{opr}$ .....	$-25^\circ$ to $+80^\circ\text{C}$

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
View Angle of Half Power	$2\theta_{1/2}$		-	50	-	Degree
Peak Wave Length NTE3163	$\lambda_{peak}$		-	700	-	nm
NTE3164			-	565	-	nm
NTE3165			-	585	-	nm
Forward Voltage	$V_F$		-	2.1	-	V
NTE3163 Only			-	1.9	-	V
Forward Current	$I_F$		-	20	-	mA
NTE3163 Only			-	5	-	mA
Luminous Intensity NTE3163	L		-	0.4	-	mcd
NTE3164			-	0.7	-	mcd
NTE3165			-	1.0	-	mcd
Reverse Current	$I_R$	$V_R = 3V$	-	-	10	$\mu\text{A}$

