



ELECTRONICS, INC.  
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## NTE3166, NTE3167, NTE3168 Light Emitting Diode – 2mm x 5mm

**Features:**

- Lead Frame Type w/Diffused Lens:
  - NTE3166 (Red, GaP/GaP)
  - NTE3167 (Green, GaP/GaP)
  - NTE3168 (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	$\lambda_{peak}$		–	700	–	nm
NTE3166				565	–	nm
NTE3167				585	–	nm
Forward Voltage	$V_F$		–	2.1	–	V
NTE3166 Only				1.9	–	V
Forward Current	$I_F$		–	20	–	mA
NTE3166 Only				5	–	mA
Luminous Intensity	L		–	0.4	–	mcd
NTE3166				0.8	–	mcd
NTE3167				2.0	–	mcd
Reverse Current	$I_R$	$V_R = 3V$	–	–	10	$\mu\text{A}$

