

597-3xx1-2xx

ABSOLUTE MAXIMUM RATINGS ($T_A=25^{\circ}\text{C}$)	Red -3001	AlGaAs Red -3121	Green -3301	Orange -3211	Yellow -3401
Power Dissipation (mW)	100	100	100	100	60
Forward Current (mA)	30	30	30	30	20
Derating (mA/ $^{\circ}\text{C}$) <i>From 25$^{\circ}\text{C}$ $^{\circ}$From 55$^{\circ}\text{C}$</i>	.4	.66*	.4	.66*	.25
Peak Current (mA) <i>Pulse width = 100 μs *Pulse width = 10 μs</i>	120	500*	120	500*	80
Operating Temperature ($^{\circ}\text{C}$)	-55/+85	-55/+100	-55/+85	-55/+100	-55/+85
Storage Temperature ($^{\circ}\text{C}$)	-55/+100	-55/+100	-55/+100	-55/+100	-55/+100
Soldering Profile	235 $^{\circ}\text{C}$ peak 15 seconds, 185 $^{\circ}$ for 90 seconds				

Solder Adherence per MIL-STD-202E, Method 208C

OPERATING CHARACTERISTICS ($T_A=25^{\circ}\text{C}$)		Red -3001	AlGaAs Red -3121	Green -3301	Orange -3211	Yellow -3401
Luminous Intensity (mcd)	Min.	4	10	4	6.3	4
$I_F=10\text{mA}$	Typical	10	20	10		7
Peak Wavelength (nm)	Typical	630	660	565	610	585
λ_{Peak}						
Viewing Angle ($2\Theta_{1/2}$)	Typical	120 $^{\circ}$	120 $^{\circ}$	120 $^{\circ}$	120 $^{\circ}$	120 $^{\circ}$
Forward Voltage (V)	Typical	2	1.75*	2.1	2*	2.1
$I_F=20\text{mA}$ $I_F=10\text{mA}$	Max.	2.8	2.6*	2.8	2.6*	2.8
Reverse Voltage (V), $I_R=10\mu\text{A}$	Min.	5	5	5	5	5

$\Theta_{1/2}$ is the off axis angle at which the luminous intensity is half the axial luminous intensity

