

### Features

- \* LOW CURRENT REQUIREMENTS
- \* HIGH LIGHT OUTPUT
- \* RELIABLE AND RUGGED
- \* IC COMPATIBLE

### Absolute Maximum Ratings at T<sub>A</sub>=25°C

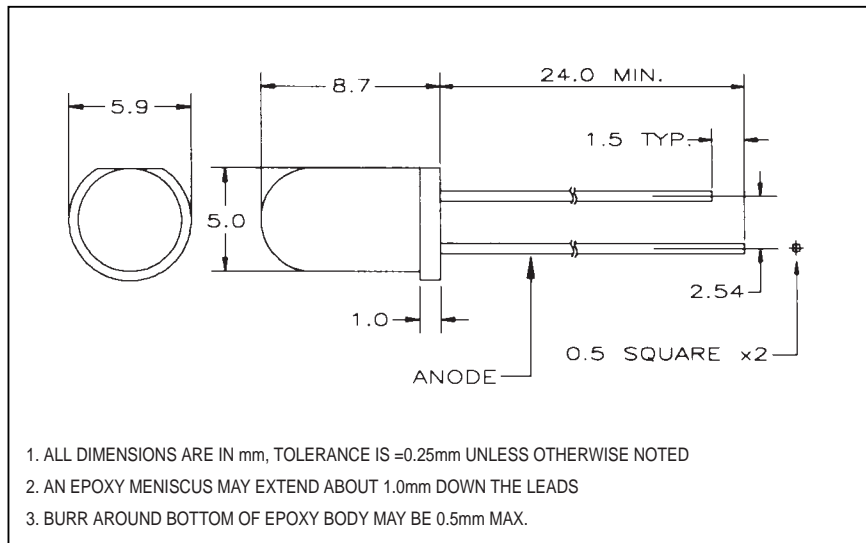
REVERSE VOLTAGE .....	GaAsP RED 3.0 V, OTHER 5.0 V
D.C. FORWARD CURRENT .....	30 mA
PULSE CURRENT (1/10 DUTY CYCLE, 0.1 ms PULSE WIDTH) .....	100 mA
OPERATING TEMPERATURE RANGE .....	-25°C TO +85°C
STORAGE TEMPERATURE RANGE .....	-25°C TO +100°C
LEAD SOLDERING TEMP. (1.6mm FROM BODY) .....	260°C FOR 5 SEC

### Electrical/Optical Characteristics at T<sub>A</sub>=25°C

PART NUMBER	LED MATERIAL	CHIP EMITTING COLOR	LEN'S COLOR		PEAK WAVELENGTH @20mA(nm)	FORWARD VOLTAGE @20mA(V)		LUMINOUS INTENSITY @20mA(mcd)		VIEW ANGLE 2θ <sub>1/2</sub> (deg)
			R.D.	W.D.		TYP.	MAX.	MIN.	TYP.	
LT1811-81	GaAsP	RED	R.D.	W.D.	655	1.7	2.0	1.6	2.7	44
LT1811G-81	GaP	RED	R.D.	W.D.	700	2.1	3.0	2.5	4.1	44
LT1821-81	GaP	GREEN	G.D.	W.D.	567	2.1	3.0	12.0	20.0	44
LT1831-81	GaAsP ON GaP	YELLOW	Y.D.	W.D.	585	2.1	3.0	9.8	16.4	44
LT1841-81	GaAsP ON GaP	ORANGE	O.D.	W.D.	635	2.1	3.0	13.9	23.1	44
LT1841R-81	GaAsP ON GaP	ORANGE	R.D.		635	2.1	3.0	13.9	23.1	44
LT1813-81	GaAsP	RED	W.C.	R.C.	655	1.7	2.0	5.5	9.2	22
LT1813G-81	GaP	RED	W.C.	R.C.	700	2.1	3.0	8.4	14.0	22
LT1823-81	GaP	GREEN	W.C.	G.C.	567	2.1	3.0	40.9	68.1	22
LT1833-81	GaAsP ON GaP	YELLOW	W.C.	Y.C.	585	2.1	3.0	33.5	55.8	22
LT1843-81	GaAsP ON GaP	ORANGE	W.C.	O.C.	635	2.1	3.0	47.3	78.8	22
	LT1844R-81	GaAsP ON GaP		R.C.	635	2.1	3.0	47.3	78.8	22

- (1) LENS COLOR      G.D. GREEN DIFFUSED      Y.C. YELLOW CLEAR      (2) SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.  
R.D. RED DIFFUSED      O.D. ORANGE DIFFUSED      G.C. GREEN CLEAR      (3) ALL ABOVE COMPONENTS ARE CONSIDERED. DEVIATIONS FROM STATED SPECIFICATIONS WILL REQUIRE A NEW PART NUMBER BE ASSIGNED.  
Y.D. YELLOW DIFFUSED      W.C. WATER CLEAR      O.C. ORANGE CLEAR  
W.D. WHITE DIFFUSED      R.C. RED CLEAR

### Package Dimensions



### Radiation Pattern

