FEMA ELECTRONICS CORPORATION

3.0mm ROUND LAMP

FEMA P/N: L300XX

Absolute Maximum Ratings at T_A=25℃

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

Electrical/optical characteristics at T_A=25℃

PART NUMBER		LED CHIP		LEN'S COLOR		PEAK WAVELENGTH @20 mA (nm)	FORWARD VOLTAGE @20mA(V)		LUMINOUS INTENSITY @20mA(mcd)		VIEW ANGLE 2θ 1/2 (deg)
		MATERIAL	EMITTING COLOR				TYP.	MAX.	MIN.	TYP.	
L300RD	L300RW	GaP	RED	R.D	W.D	700	2.1	3.0	1.6	2.7	56
L300GD	L300GW	GaP	GREEN	G.D	W.D	567	2.1	3.0	8.0	13.3	56
L300YD	L300YW	GaP On GaP	YELLOW	Y.D	W.D	585	2.1	3.0	6.6	11.0	56
L300OD	L300OW	GaP On GaP	ORANGE	O.D	W.D	635	2.1	3.0	9.3	15.5	56
L300HD		GaP On GaP	HI-EFF RED	R.D		635	2.1	3.0	9.3	15.5	56
L300RC	L300RT	GaP	RED	W.C	R.C	700	2.1	3.0	5.5	9.2	36
L300GC	L300GT	GaP	GREEN	W.C	G.C	567	2.1	3.0	27.0	45.0	36
L300YC	L300YT	GaP On GaP	YELLOW	W.C	Y.C	585	2.1	3.0	22.6	37.6	36
L300OC	L300OT	GaP On GaP	ORANGE	W.C	O.C	635	2.1	3.0	31.7	52.9	36
	L300HT	GaP On GaP	HI-EFF RED		R.C	635	2.1	3.0	31.7	52.9	36

(1) LEN'S COLOR

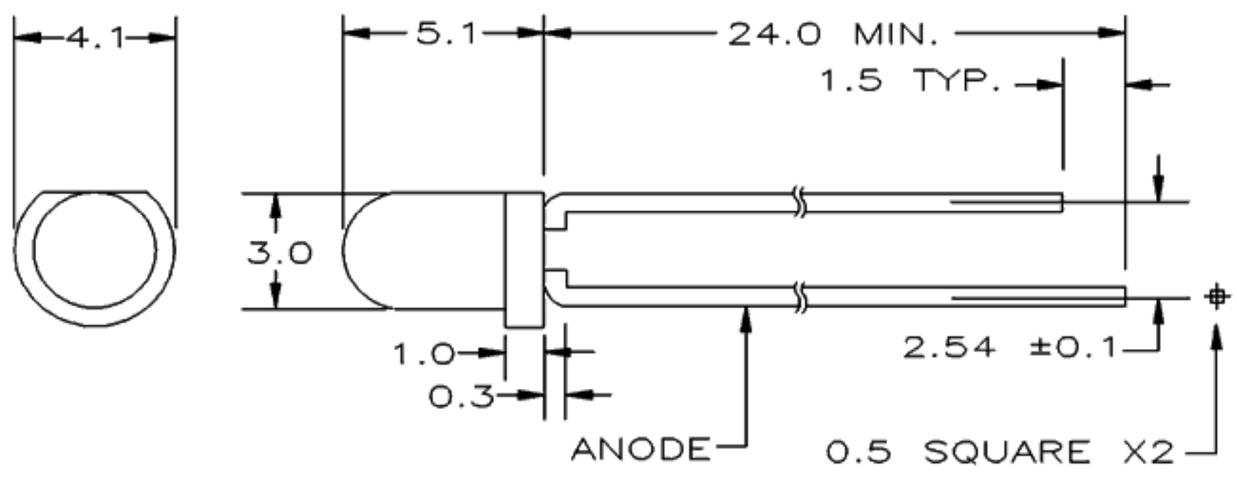
R.D….RED DIFFUSED
Y.D….YELLOW DIFFUSED
W.D…WHITE DIFFUSED
G.D….GREEN DIFFUSED
O.D….ORANGE DIFFUSED

W.C…WATER CLEAR
R.C….RED CLEAR
Y.C….YELLOW CLEAR
G.C….GREEN CLEAR
O.C….ORANGE CLEAR

(2) SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

(3) ALL ABOVE COMPONENTS ARE CONSIDERED . DEVIATIONS FROM STATED SPECIFICATIONS WILL REQUIRE A NEW PART NUMBER BE ASSIGNED .

Package Dimensions



1. ALL DIMENSIONS ARE IN mm, TOLERANCE IS±0.25mm UNLESS OTHERWISE NOTED.
2. AN EPOXY MENISCUS MAY EXTEND ABOUT 1.0mm DOWN THE LEADS.
3. BURR AROUND BOTTOM OF EPOXY BODY MAY BE 0.5mm MAX.

Radiation Pattern

