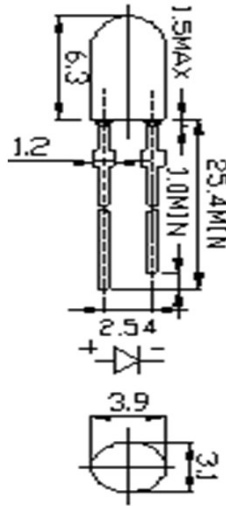


ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	RANGE
Peak Forward Current	I _{fp}	100 mA
Reverse Voltage	V _r	5V
Operating Temperature Range	Top	-40°C to +80°C
Storage Temperature Range	T _{sg}	-48°C to +80°C
Lead Soldering Temperature	T _{sol}	268°C for 5 seconds

TEST CONDITIONS			
PARAMETER	SYMBOL	UNIT	TEST CONDITION
Reverse Voltage	V _r	V	I _r =10μA
Reverse Current	I _r	μA	V _r =5V
Forward voltage	V _f	mV	I _f =20mA
Luminous Intensity	I _v	mcd	I _f =20mA



4.0mm OVAL LEDS

SL NO	PART NO	SIZE	SHAPE	COLOUR	LENS TYPE	INTENSITY (I _v in mcd)	WAVE LENGTH (nm / ct)	FORWARD VOLTAGE (V)	VIEWING ANGLE IN DEGREES
1	LLE 013UH	4mm	OVAL	WHITE	DIFFUSED	1000 - 1500	2200 - 7500K	3.0 - 3.5V	70/40
2	LLE 013UH-A	4mm	OVAL	WHITE	DIFFUSED	800 - 1000	2200 - 7500K	3.0 - 3.5V	110/50
3	LLE 033UH	4mm	OVAL	WHITE	WATER CLEAR	3000 - 3500	2200 - 7500K	3.0 - 3.5V	70/40
4	LLE 033UH-A	4mm	OVAL	WHITE	WATER CLEAR	2000 - 2700	2200 - 7500K	3.0 - 3.5V	110/50
5	LLE 113UH	4mm	OVAL	BLUE	DIFFUSED	1000 - 1500	450 - 470nm	3.0 - 3.5V	70/40
6	LLE 113UH-A	4mm	OVAL	BLUE	DIFFUSED	600 - 800	450 - 470nm	3.0 - 3.5V	110/50
	LLE 133UH	4mm	OVAL	BLUE	WATER CLEAR	3500 - 5000	450 - 470nm	3.0 - 3.5V	70/40
	LLE 133UH-A	4mm	OVAL	BLUE	WATER CLEAR	2000 - 2500	450 - 470nm	3.0 - 3.5V	110/50
4	LLE 233U-A	4mm	OVAL	GREEN	WATER CLEAR	600 - 800	570 - 575nm	1.8 - 2.4V	110/50
	LLE 213UHPG	4mm	OVAL	GREEN	DIFFUSED	2000 - 2500	525 - 530nm	3.0 - 3.5V	70/40
	LLE 213UHPG-A	4mm	OVAL	GREEN	DIFFUSED	1500 - 1700	525 - 530nm	3.0 - 3.5V	110/50
5	LLE 233UHPG	4mm	OVAL	GREEN	WATER CLEAR	6000 - 7000	525 - 530nm	3.0 - 3.5V	70/40
6	LLE 233UHPG-A	4mm	OVAL	GREEN	WATER CLEAR	4000 - 5000	525 - 530nm	3.0 - 3.5V	110/50
	LLE 313U	4mm	OVAL	YELLOW	DIFFUSED	400 - 500	585 - 595nm	1.8 - 2.4V	110/50
	LLE 313U-A	4mm	OVAL	YELLOW	DIFFUSED	600 - 800	585 - 595nm	1.8 - 2.4V	110/50
	LLE 313U-AA	4mm	OVAL	YELLOW	DIFFUSED	900 - 1500	585 - 595nm	1.8 - 2.4V	110/50
	LLE 313UH-A	4mm	OVAL	YELLOW	DIFFUSED	1500 - 2500	585 - 595nm	1.8 - 2.4V	110/50
6	LLE 333U-A	4mm	OVAL	YELLOW	WATER CLEAR	1000 - 1500	585 - 595nm	1.8 - 2.4V	80/40
7	LLE 333UH-A	4mm	OVAL	YELLOW	WATER CLEAR	2500 - 3500	585 - 595nm	1.8 - 2.4V	80/40
8	LLE 413U-A	4mm	OVAL	RED	DIFFUSED	600 - 800	620 - 630nm	1.8 - 2.4V	110/50
9	LLE 413UH-A	4mm	OVAL	RED	DIFFUSED	1500 - 2500	620 - 630nm	1.8 - 2.4V	80/40
	LLE 433U-A	4mm	OVAL	RED	WATER CLEAR	1000 - 1500	620 - 630nm	1.8 - 2.4V	110/50
	LLE 433UH-A	4mm	OVAL	RED	WATER CLEAR	2500 - 3500	620 - 630nm	1.8 - 2.4V	80/40
10	LLE 713U-A	4mm	OVAL	AMBER	DIFFUSED	600 - 800	605 - 610nm	1.8 - 2.4V	110/50
11	LLE 733U-A	4mm	OVAL	AMBER	WATER CLEAR	1200 - 1500	605 - 610nm	1.8 - 2.4V	110/50