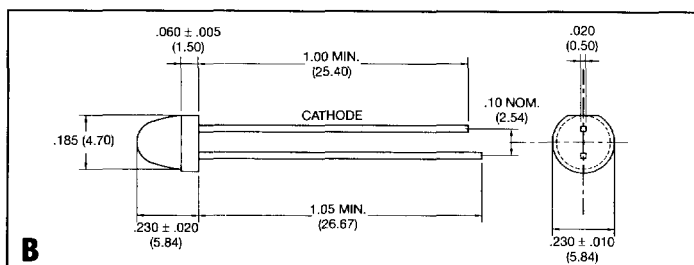
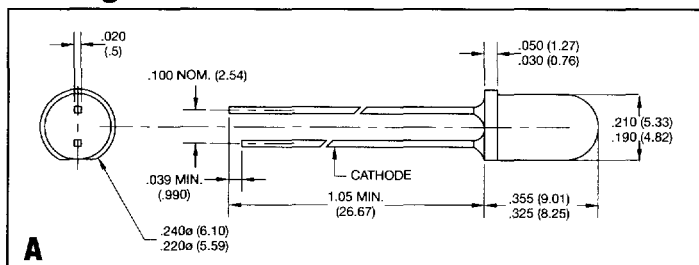
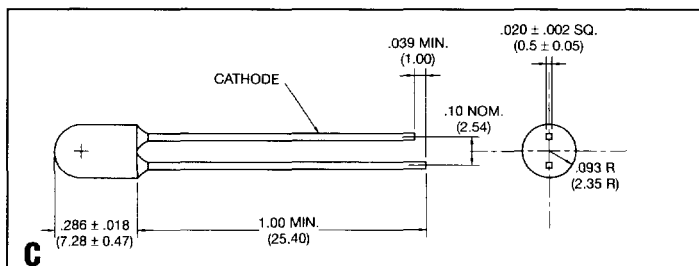


T1 3/4 (5mm) High Efficiency and Ultrabright LEDs

Package Dimensions



All Dimensions are in inches (mm)



Features

- Ideal for general purpose applications
- Ultrabright LEDs are effective in backlighting front panels

Electrical and Optical Characteristics ($T_A=25^{\circ}\text{C}$)

Part Number	Emitted Color	Lens Color	Package Type	Luminous Intensity			Forward Voltage			Peak Wavelength (nm)	View Angle (degrees)	Package Outline
				Min. mcd	Typ. mcd	mA	Typ.	Max.	mA			
3008	Red	Red	Diffused	5.4	7.0	10	1.9	2.4	10	635	60	A
3019	Green	Green	Diffused	10.6	14.0	10	2.1	2.7	10	565	60	A
3020	Yellow	Yellow	Diffused	5.7	8.0	10	2.0	2.4	10	583	60	A
3022	Orange	Orange	Diffused	5.4	7.0	10	1.9	2.4	10	600	60	A
3032	Red	Clear	Non Diffused	90.0	125.0	20	1.9	2.6	20	635	24	A
3033	Yellow	Clear	Non Diffused	96.0	140.0	20	2.1	2.6	20	583	24	A
3034	Green	Clear	Non Diffused	111.0	140.0	20	2.2	3.0	20	565	24	A
4906	Red	Red	Diffused	12.5	25.0	10	2.0	2.5	10	625	60	B
4907	Green	Green	Diffused	5.0	10.0	10	2.2	2.5	10	565	60	B
4908	Yellow	Yellow	Diffused	5.0	10.0	10	2.1	2.5	10	590	60	B
4909	Red	Red	Transparent	32.0	125.0	10	2.0	2.5	10	625	30	B
4910	Green	Green	Transparent	20.0	80.0	10	2.2	2.5	10	565	30	B
4911	Yellow	Yellow	Transparent	20.0	80.0	10	2.1	2.5	10	590	30	B
9111	Red	Red	Diffused	3.2	5.0	10	2.0	2.5	10	625	120	C
9112	Green	Green	Diffused	3.2	5.0	10	2.2	2.5	10	565	120	C
9113	Yellow	Yellow	Diffused	5.0	8.0	10	2.1	2.5	10	590	120	C
9114	Orange	Orange	Diffused	5.0	8.0	10	2.0	2.5	10	625	120	C
9129	Red	Clear	Non Diffused	20.0	80.0	10	2.0	2.5	10	625	30	C
9130	Green	Clear	Non Diffused	12.5	50.0	10	2.2	2.5	10	565	30	C
9131	Yellow	Clear	Non Diffused	12.5	80.0	10	2.1	2.5	10	590	30	C

Absolute Maximum Ratings ($T_A=25^{\circ}\text{C}$)

Parameter	Red/Orange (3008, 3022, 3032)	Yellow (3020, 3033)	Green (3019, 3034)	Red/Orange (4906, 4909, 9111, 9129)	Yellow (4908, 4911, 9113, 9131)	Green (4907, 4910, 9112, 9130)
Power Dissipation (mW)	135	85	135	105	105	105
Derating (mW/°C) From 25°C (1) From 50°C	1.8	(1) 1.6	1.8			
Average Forward Current (mA)	25	20	25	30	30	25
Peak Forward Current (mA)	90	60	90	150	150	150
Operating Temperature (°C)	-55/+100	-55/+100	-20/+100	-40/+85	-40/+85	-40/+85
Storage Temperature (°C)	-55/+100	-55/+100	-55/+100	-40/+85	-40/+85	-40/+85
Reverse Voltage (IR = 100μA)	5	5	5	5	5	5
Soldering Temperature (1.6mm from body)	260°C for 5 seconds			260°C for 5 seconds		



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