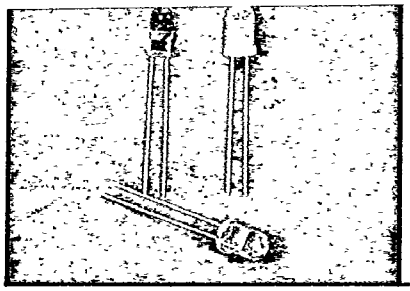


EVERLIGHT

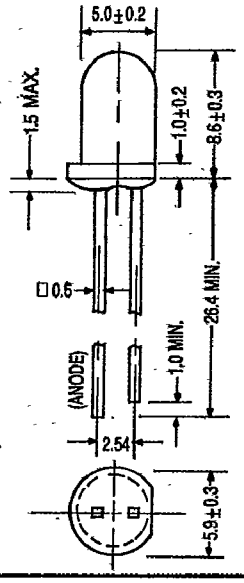
333 SERIES (T-1 3/4)

Round Type LED Lamps (5mm)

MAIN FEATURES:

- LOW COST.
- HIGH LIGHT OUTPUT.
- I.C. COMPATIBLE/LOW CURRENT REQUIREMENTS.
- POPULAR T-1 3/4 DIAMETER, 1" LEAD LENGTH.
- WIDE AND NARROW VIEWING ANGLE TYPES.

■ Package Dimensions:



■ DESCRIPTION:

The 333RD/RT series are Gallium Arsenide Phosphide red light emitting diodes.
The 333HD/HT, 333GD/GT/SGD/SGT and 333PYD/PYT series are Gallium Phosphide bright red, green and yellow light emitting diodes respectively. The 333YD/YT, 333ED/ET, 333ID/IT series are Gallium Arsenide Phosphide on Gallium Phosphide yellow, orange, hi-efficiency red and amber light emitting diodes respectively. General purpose and selected brightness versions of both diffused and non-diffused lens types are available in each series.

■ ABSOLUTE MAXIMUM RATINGS: (Ta = 25°C)

Reverse Voltage	:	5 Volt
Reverse Current (Vr = 5V)	:	10μA
Operating Temperature Range:		−40°C To 85°C
Storage Temperature Range	:	−40°C To 100°C
Lead Soldering Temperature (1.6 mm (1/16 inch) From Body)	:	260°C For 5 Seconds

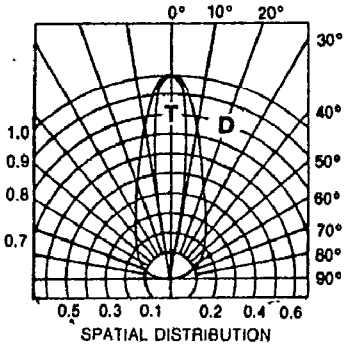
NOTE: 1. All dimensions are in millimeters.
2. Lead spacing is measured where the leads emerge from the package.
3. Protruded resin under flange 1.5 mm (0.059") Max.

■ PART SELECTION AND APPLICATION INFORMATION (RATINGS AT 25°C AMBIENT)

Type No.	Chip		Lens Color	Peak Wave Length λp(nm)	Absolute Maximum Ratings				Electro-Optical Characteristic						Viewing Angle 2θ½ (deg)	Remark
	Material	Emitted Color			△λ (nm)	Pd (mw)	If(mA)	Peak If(mA)	Vf(V)			Rec If(mA)	Iv(mcd)			
									Min.	Typ.	Max.		Min.	Typ.		
EL333RD	GaAsP	Red	Red Diffused	655	40	110	40	200	1.5	1.7	2.0	10~20	0.3	1.1	36	**
EL333HD	GaP	Bright Red	Red Diffused	697	90	45	15	50	1.7	2.1	2.8	5~10	1.0	2.0	36	**
EL333ID	GaAsP/GaP	Hi-Eff Red	Red Diffused	635	45	100	30	160	1.7	2.0	2.8	10~20	2.5	10.0	36	**
EL333SGD	GaP	Green	Green Diffused	560	30	100	30	160	1.7	2.1	2.8	10~20	2.0	7.0	36	**
EL333GD	GaP	Green	Green Diffused	565	30	100	30	160	1.7	2.1	2.8	10~20	2.0	10.0	36	*
EL333PYD	GaP	Yellow	Yellow Diffused	570	30	100	30	160	1.7	2.0	2.8	10~20	2.0	10.0	36	*
EL333YD	GaAsP/GaP	Yellow	Yellow Diffused	585	35	85	20	160	1.7	2.0	2.8	10~20	2.0	10.0	36	*
EL333ED	GaAsP/GaP	Orange	Orange Diffused	635	45	100	30	160	1.7	2.0	2.8	10~20	2.5	9.0	36	*
EL333RT	GaAsP	Red	Red Trans.	655	40	110	40	200	1.5	1.7	2.0	10~20	1.7	5.0	16	*
EL333HT	GaP	Bright Red	Red Trans.	697	90	45	15	50	1.7	2.1	2.8	5~10	1.5	8.0	16	
EL333IT	GaAsP/GaP	Hi-Eff Red	Red Trans.	635	45	100	30	160	1.7	2.0	2.8	10~20	10.0	30.0	16	*
EL333SGT	GaP	Green	Green Trans.	560	30	100	30	160	1.7	2.1	2.8	10~20	10.0	30.0	16	*
EL333GT	GaP	Green	Green Trans.	565	30	100	30	160	1.7	2.1	2.8	10~20	10.0	30.0	16	*
EL333PYT	GaP	Yellow	Yellow Trans.	570	30	100	30	160	1.7	2.0	2.8	10~20	9.0	28.0	16	
EL333YT	GaAsP/GaP	Yellow	Yellow Trans.	585	35	85	20	160	1.7	2.0	2.8	10~20	9.0	28.0	16	
EL333ET	GaAsP/GaP	Orange	Orange Trans.	635	45	100	30	160	1.7	2.0	2.8	10~20	10.0	30.0	16	*

■ TEST CONDITION FOR EACH PARAMETER:

PARAMETER:	SYMBOL	UNIT	TEST CONDITION
REVERSE VOLTAGE	Vr	VOLT	
REVERSE CURRENT	Ir	μA	Vr = 5.0 Volt
FORWARD VOLTAGE	Vf	VOLT	If = 20mA
LUMINOUS INTENSITY	Iv	MCD	If = 10mA
VIEWING ANGLE	2θ½	DEGREE	If = 20mA
SPECTRAL LINE HALF-WIDTH	△λ	nm	
POWER DISSIPATION	Pd	mW	
PEAK FORWARD CURRENT (Duty 1/10 @ 1KHz)	If (Peak)	mA	
RECOMMENDED OPERATING CURRENT	If (Rec)	mA	



SPATIAL DISTRIBUTION

Remark: **The most popular types *Common types The rest are special types
Hi-Eff Red → High Efficiency Red
Trans → Transparent