



- Red, Amber, Amber/Yellow, Yellow, Green, Blue
- Water Clear Encapsulation
- Luminous Intensities from 10 to 500 mcd

**Electro-Optical Characteristics @ T<sub>A</sub> = 25°C**

**Absolute Maximum Ratings @ T<sub>A</sub> = 25°C**

Part Number	Color	Peak Wavelength λ <sub>pk</sub> (nm)	Luminous Intensity I <sub>v</sub> (mcd) @ I <sub>f</sub> =20mA Min/Typ	Viewing Angle 2θ <sub>1/2</sub> (deg)	Forward Voltage V <sub>f</sub> @ I <sub>f</sub> =20mA Typ/Max	Power Dissipation (mW)	Derating Factor (mW/°C)	Maximum Continuous Current (mA)	Peak Forward Current 5% Duty Cycle (mA)	Operating & Storage Temperature (°C)
200-EWR	RED	660	80/160	30	1.7/2.0	100	1.6	50	300	-30 / +85[3]
200-UWR	RED	660	300/500[1]	30	1.8/2.0[1]	100	1.6	50	300	-30 / +85[3]
200-EWA	AMB	605	60/90	30	2.2/2.5	125	1.8	50	100	-30 / +85[3]
200-UWA	AMB	605	120/200[2]	30	2.2/2.5[2]	125	1.8	50	100	-30 / +85[3]
200-EWAY	A/Y	580	60/90	30	2.2/2.5	125	1.8	50	100	-30 / +85[3]
200-UWAY	A/Y	580	120/200[2]	30	2.2/2.5[2]	125	1.8	50	100	-30 / +85[3]
200-EWY	YEL	570	80/160	30	2.1/2.5	125	1.8	50	100	-30 / +85[3]
200-UWY	YEL	570	200/350[2]	30	2.2/2.5[2]	125	1.8	50	100	-30 / +85[3]
200-EWG	GRN	555	50/80	30	2.1/2.5	125	1.8	50	100	-30 / +85[3]
200-UWG	GRN	555	120/200[2]	30	2.2/2.5[2]	125	1.8	50	100	-30 / +85[3]
200-SWB	BLU	468	6/12	15	3.0/3.3	200	3.6	50	100	-55 / +85[3]

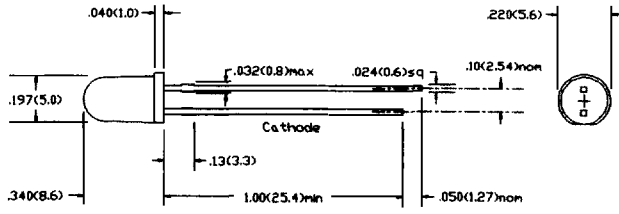
[1] Forward Current = 50mA.
[2] Forward Current = 40mA.
[3] Storage Temperature = -30/ +100°C, -55/ +100°C for 200-SWB.

Reverse Breakdown Voltage V<sub>r</sub>(I<sub>R</sub>=100μA)=5Vdc, E Series & U Series=4Vdc. Model 200-SWB V<sub>r</sub>(I<sub>R</sub>=30μA)=5Vdc.  
LED Soldering Temperature=260°C (1/16" below package base for 5 seconds).

Color	λ <sub>pk</sub> (nm)	Chip Material
RED	660	GaAlAs
RED	635	GaAsP/GaP
AMB	583-605	GaAsP/GaP
A/Y	580	GaAsP/GaP
YEL	570	GaP
GRN	555-565	GaP
BLU	470	SiC

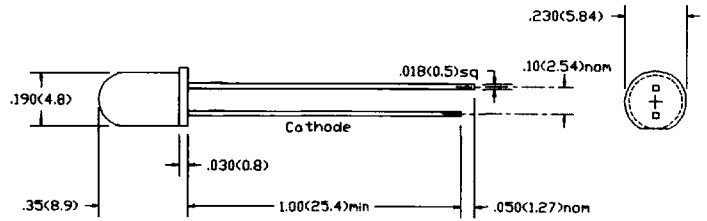
**To Order:** Select one Part Number from the **SHADED** column in the table.

**Example:** 200-EWA (T-1<sup>3</sup>/<sub>4</sub>, Water Clear E Series, AMB)



An epoxy meniscus may extend about .040(1.0) down the leads

E and U Series



An epoxy meniscus may extend about .040(1.0) down the leads

S Series



All dimensions are in inches(mm)  
 Tolerances: .xx"(x) ±.025"(.63) / .xxx"(xx) ±.010"(.25)  
 Specifications are subject to change without notice.