



LED DISPLAYS:ELS-3191C/D SERIES

ELECTRICAL AND OPTICAL CHARACTERISTICS (Ta=25°C)

Part No.	Emittd Color	PeakWave Length	Epoxy Color	Surface Color	Common Electrode	$\Delta\lambda$ (nm)	Pd (mW)	If (mA)	Peak (mA)	Vf(V)		IV(mcd)	
										Min	Max	Min	Max
ELS-3191CS	Red	620-630	White	Black	Cathode	10	35	20	60	1.8	2.0	82	92
ELS-3191CO	Orange	600-610	White	Black	Cathode	10	35	20	60	1.8	2.0	85	95
ELS-3191CY	Yellow	585-595	White	Black	Cathode	10	35	20	60	1.8	2.0	88	98
ELS-3191CG	Olivine	565-575	White	Black	Cathode	10	35	20	60	1.8	2.0	10	20
ELS-3191CGG	Emerald	515-525	White	Black	Cathode	10	55	20	60	2.6	2.8	215	225
ELS-3191CB	Blue	460-470	White	Black	Cathode	10	55	20	60	2.6	2.8	15	25
ELS-3191CW	White	-	-	Black	Cathode	-	55	20	60	2.6	2.8	-	-
ELS-3191DS	Red	620-630	White	Black	Anode	10	35	20	60	1.8	2.0	82	92
ELS-3191DO	Orange	600-610	White	Black	Anode	10	35	20	60	1.8	2.0	85	95
ELS-3191DY	Yellow	585-595	White	Black	Anode	10	35	20	60	1.8	2.0	88	98
ELS-3191DG	Olivine	565-575	White	Black	Anode	10	35	20	60	1.8	2.0	10	20
ELS-3191DGG	Emerald	515-525	White	Black	Anode	10	55	20	60	2.6	2.8	215	225
ELS-3191DB	Blue	460-470	White	Black	Anode	10	55	20	60	2.6	2.8	15	25
ELS-3191DW	White	-	-	Black	Anode	-	55	20	60	2.6	2.8	-	-

ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

ReverseVoltage	ReverseCurrent (VR=5V)	OperatingTemperature Range	StorageTemperature Range	Lead Soldering Temperature
5V	20 μ A	-35°C~+80°C	-45°C~+80°C	260°C For 3 Seconds

PACKAGE DIMENSION (Tolerance : ± 0.2 mm)

