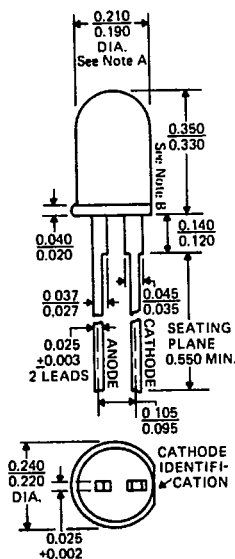


SPRAGUE OPTOELECTRONIC SEMICONDUCTORS

Visible Light Emitting Diodes

SERIES ED710

T1³/₄ Lamp Size with Notched Leads



- A. This diameter is measured 0.0005 inch from the shoulder.
B. Within this zone the package contour is not controlled.

Intended for use in high-volume, low-cost, high-performance applications, Series ED-710 LEDs consists of a wide variety of lens configurations suitable for many industrial type circuits.

ABSOLUTE MAXIMUM RATINGS at 25°C Free-Air Temperature (all types)

D-C Forward Current I_F (mA)	Reverse Voltage V_R (Volts)	Power Dissipation		Operating Temperature Range T_{OPR} (°C)	Storage Temperature Range T_{STG} (°C)
		Power P_D (mW) (to +75°C)	Derate mW/°C		
20	5	120	1.8	-40 to +80	-40 to +80

Note: Lead temperature, 1/16" from case for 5 seconds is 230°C maximum.

ELECTRO-OPTICAL CHARACTERISTICS:

Sprague Type Number	Use	Lens Configuration	Emission Color	Material *	Electrical Characteristics @ $T_A = 25^\circ\text{C}$							
					Forward Voltage V_F Max @ I_F (Volts)		Reverse Current I_R Max @ V_R (μA) (Volts)		Luminous Intensity I_V Typ @ I_F (mcd) (mA)		Wavelength λ_P Typ @ I_F (nm) (mA)	
ED710A	Point Source	Transparent Clear	Amber	GaP	3.0	20	100	5	1.5	20	590	20
ED710G	Point Source	Transparent Clear	Green	GaP	3.0	20	100	5	1.5	20	565	20
ED710H	Point Source	Transparent Clear	Red	GaP	3.0	20	100	5	1.5	20	630	20
ED7100	Point Source	Transparent Clear	Orange	GaP	3.0	20	100	5	1.5	20	600	20
ED710P	Point Source	Transparent Clear	Pale Green	GaP	3.0	20	100	5	1.5	20	550	20
ED710R	Point Source	Transparent Clear	Red	GaAsP	2.1	20	100	5	0.8	20	650	20
ED710Y	Point Source	Transparent Clear	Yellow	GaP	3.0	20	100	5	1.5	20	580	20
ED713A	Point Source	Amber Clear	Amber	GaP	3.0	20	100	5	1.5	20	590	20
ED713G	Point Source	Green Clear	Green	GaP	3.0	20	100	5	1.5	20	565	20
ED713H	Point Source	Red Clear	Red	GaP	3.0	20	100	5	1.5	20	630	20
ED7130	Point Source	Orange Clear	Orange	GaP	3.0	20	100	5	1.5	20	600	20
ED713P	Point Source	Green Clear	Pale Green	GaP	3.0	20	100	5	1.5	20	550	20
ED713R	Point Source	Red Clear	Red	GaAsP	2.1	20	100	5	0.8	20	650	20
ED713Y	Point Source	Yellow Clear	Yellow	GaP	3.0	20	100	5	1.5	20	580	20
ED714A	Indicator	Amber Diffused	Amber	GaP	3.0	20	100	5	1.5	20	590	20
ED714G	Indicator	Green Diffused	Green	GaP	3.0	20	100	5	1.5	20	565	20
ED714H	Indicator	Red Diffused	Red	GaP	3.0	20	100	5	1.5	20	630	20
ED7140	Indicator	Yellow Diffused	Orange	GaP	3.0	20	100	5	1.5	20	600	20
ED714P	Indicator	Green Diffused	Pale Green	GaP	3.0	20	100	5	1.5	20	550	20
ED714R	Indicator	Red Diffused	Red	GaAsP	2.1	20	100	5	0.8	20	650	20
ED714Y	Indicator	Yellow Diffused	Yellow	GaP	3.0	20	100	5	1.5	20	580	20
ED716A	Indicator	Milk White Diffused	Amber	GaP	3.0	20	100	5	1.5	20	590	20
ED716G	Indicator	Milk White Diffused	Green	GaP	3.0	20	100	5	1.5	20	565	20
ED716H	Indicator	Milk White Diffused	Red	GaP	3.0	20	100	5	1.5	20	630	20
ED7160	Indicator	Milk White Diffused	Orange	GaP	3.0	20	100	5	1.5	20	600	20
ED716P	Indicator	Milk White Diffused	Pale Green	GaP	3.0	20	100	5	1.5	20	550	20
ED716R	Indicator	Milk White Diffused	Red	GaAsP	2.1	20	100	5	0.8	20	650	20
ED716Y	Indicator	Milk White Diffused	Yellow	GaP	3.0	20	100	5	1.5	20	580	20
ED718H	Indicator	Red Diffused	Dark Red	GaP	3.0	20	100	5	1.5	20	630	20

*GaP = Gallium Phosphide; GaAsP = Gallium Arsenide Phosphide.