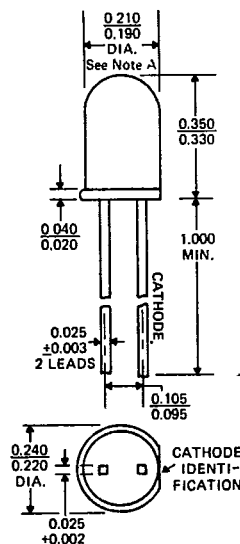


SPRAGUE OPTOELECTRONIC SEMICONDUCTORS

Visible Light Emitting Diodes

SERIES ED750

T1³/₄ Lamp Size with Straight Leads



A. This diameter is measured 0.0005 inch from the shoulder.

Series ED 750 LEDs consists of a wide variety of lens configurations suitable for many industrial-type circuits. They are intended for use in high volume, low-cost, high-performance applications.

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)	Derate mW/°C (to +75°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) (mA)		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)	
ED750A	Point Source	Transparent Clear	Amber	GaP	3.0	20	100	5	1.5	20	590	20
ED750G	Point Source	Transparent Clear	Green	GaP	3.0	20	100	5	1.5	20	565	20
ED750H	Point Source	Transparent Clear	Red	GaP	3.0	20	100	5	1.5	20	630	20
ED7500	Point Source	Transparent Clear	Orange	GaP	3.0	20	100	5	1.5	20	600	20
ED750P	Point Source	Transparent Clear	Pale Green	GaP	3.0	20	100	5	1.5	20	550	20
ED750R	Point Source	Transparent Clear	Red	GaAsP	2.1	20	100	5	0.8	20	650	20
ED750Y	Point Source	Transparent Clear	Yellow	GaP	3.0	20	100	5	1.5	20	580	20
ED753A	Point Source	Amber Clear	Amber	GaP	3.0	20	100	5	1.5	20	590	20
ED753G	Point Source	Green Clear	Green	GaP	3.0	20	100	5	1.5	20	565	20
ED753H	Point Source	Red Clear	Red	GaP	3.0	20	100	5	1.5	20	630	20
ED7530	Point Source	Orange Clear	Orange	GaP	3.0	20	100	5	1.5	20	600	20
ED753P	Point Source	Green Clear	Pale Green	GaP	3.0	20	100	5	1.5	20	550	20
ED753R	Point Source	Red Clear	Red	GaAsP	2.1	20	100	5	0.8	20	650	20
ED753Y	Point Source	Yellow Clear	Yellow	GaP	3.0	20	100	5	1.5	20	580	20
ED754A	Indicator	Amber Diffused	Amber	GaP	3.0	20	100	5	1.5	20	590	20
ED754G	Indicator	Green Diffused	Green	GaP	3.0	20	100	5	1.5	20	565	20
ED754H	Indicator	Red Diffused	Red	GaP	3.0	20	100	5	1.5	20	630	20
ED7540	Indicator	Yellow Diffused	Orange	GaP	3.0	20	100	5	1.5	20	600	20
ED754P	Indicator	Green Diffused	Pale Green	GaP	3.0	20	100	5	1.5	20	550	20
ED754R	Indicator	Red Diffused	Red	GaAsP	2.1	20	100	5	0.8	20	650	20
ED754Y	Indicator	Yellow Diffused	Yellow	GaP	3.0	20	100	5	1.5	20	580	20
ED756A	Indicator	Milk White Diffused	Amber	GaP	3.0	20	100	5	1.5	20	590	20
ED756G	Indicator	Milk White Diffused	Green	GaP	3.0	20	100	5	1.5	20	565	20
ED756H	Indicator	Milk White Diffused	Red	GaP	3.0	20	100	5	1.5	20	630	20
ED7560	Indicator	Milk White Diffused	Orange	GaP	3.0	20	100	5	1.5	20	600	20
ED756P	Indicator	Milk White Diffused	Pale Green	GaP	3.0	20	100	5	1.5	20	550	20
ED756R	Indicator	Milk White Diffused	Red	GaAsP	2.1	20	100	5	0.8	20	650	20
ED756Y	Indicator	Milk White Diffused	Yellow	GaP	3.0	20	100	5	1.5	20	580	20
ED758H	Indicator	Red Diffused	Dark Red	GaP	3.0	20	100	5	1.5	20	630	20

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