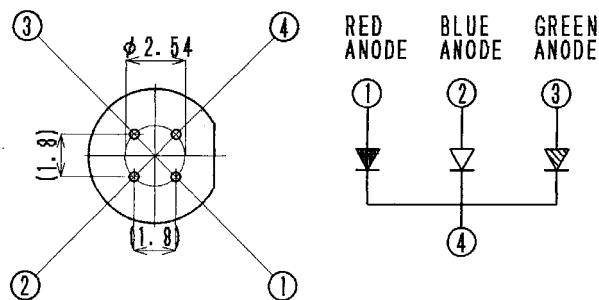
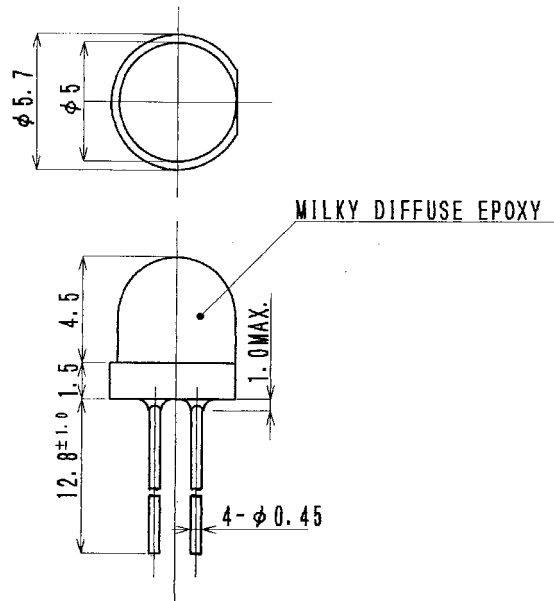


Full-color LED lamp

ELD-RGB-593-2

Colors	Type	Technology	Case
Red, green, blue	4 pins	3 chips	5 mm milky



TOLERANCES: ± 0.2
(UNLESS OTHERWISE SPECIFIED)

Maximum Ratings

$T_{amb} = 25^{\circ}\text{C}$, unless otherwise specified

Parameter	Symbol	Blue	Green	Red	Unit
Forward current (DC)	I_F	30	30	30	mA
Reverse voltage*	V_R	3	3	3	V
Power dissipation	P_D	100	100	60	mW
Operating temperature range	T_{amb}	-10 to +60			$^{\circ}\text{C}$
Storage temperature range	T_{stg}	-20 to +80			$^{\circ}\text{C}$
Lead soldering temperature**	T_{sol}	260			$^{\circ}\text{C}$

*at $I_R = 100 \mu\text{A}$

**5 sec max., 5 mm from the body

Typical Optical and Electrical Characteristics

$T_{amb} = 25^{\circ}\text{C}$, unless otherwise specified

Parameter	Test conditions	Symbol	Blue	Green	Red	Unit
Forward voltage	$I_F = 20 \text{ mA}$	V_F	3.5	3.5	1.8	V
Reverse current	$U_R = 3 \text{ V}$	I_R	100	100	10	μA
Radiant power	$I_F = 20 \text{ mA}$	Φ_e	3	2	3	mW
Luminous intensity	$I_F = 20 \text{ mA}$	I_v	50	150	60	mcd
Peak wavelength	$I_F = 20 \text{ mA}$	λ_p	468	525	644	nm
Spectral bandwidth at 50%	$I_F = 20 \text{ mA}$	$\Delta\lambda_{0.5}$	35	45	20	nm
Viewing angle	$I_F = 20 \text{ mA}$	φ	120			deg.