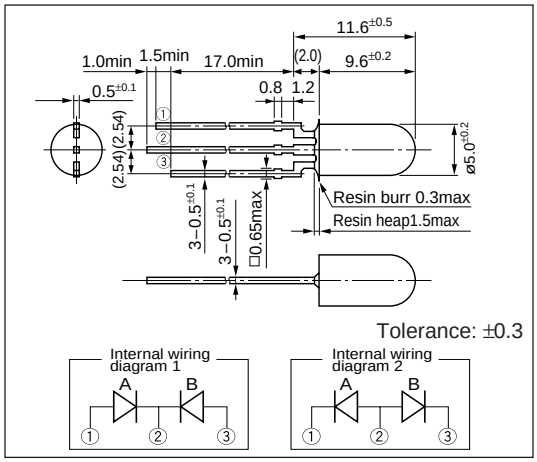
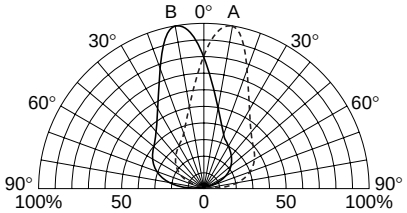
5φ Round Bicolor LED

SML10051 Series

External Dimensions (Unit: mm)



Directivity (Typical)



Absolute maximum ratings (Ta=25°C)

Symbol	Unit	Rating	Condition
I_F	mA	30	
ΔI_F	mA/°C	–0.45	Above 25°C
I_{FP}	mA	100	f=1kHz, tw≤100μs
V_R	V	4	
Top	°C	–30 to +85	
Tstg	°C	–30 to +100	

Electrical Optical characteristics (Ta=25°C)

●Common cathode (Internal wiring diagram 1)

Emitting color	Part Number	Lens color	Forward voltage V_F (V) typ	Forward voltage V_F (V) max	Condition I_F (mA)	Reverse current I_R (μA) max	Condition V_R (V)	Intensity I_V (mcd) typ	Condition I_F (mA)	Peak wavelength λP (nm) typ	Condition I_F (mA)	Spectrum half width Δλ (nm) typ	Condition I_F (mA)	Chip material
A Red	SML12451W	Diffused white	1.9	2.5	10	10	4	40	20	630	10	35	10	GaAsP
B Green			2.0	2.5	10	10	4	60	20	560	10	20	10	GaP

●Common anode (Internal wiring diagram 2)

Emitting color	Part Number	Lens color	Forward voltage V_F (V) typ	Forward voltage V_F (V) max	Condition I_F (mA)	Reverse current I_R (μA) max	Condition V_R (V)	Intensity I_V (mcd) typ	Condition I_F (mA)	Peak wavelength λP (nm) typ	Condition I_F (mA)	Spectrum half width Δλ (nm) typ	Condition I_F (mA)	Chip material
A High-intensity red	SML16751WN	Diffused white	1.7	2.2	10	10	4	50	20	660	10	30	10	GaAlAs
B Yellow			2.4	3.0	10	10	4	60	20	570	10	30	10	GaP