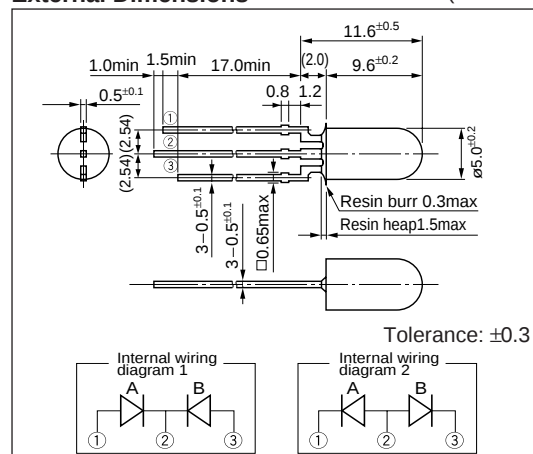


5 ϕ Round Bicolor LED

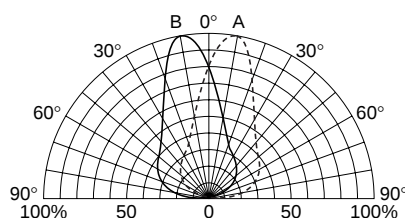
SML10051 Series

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, $t_w \leq 100\mu s$
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		Condition	Reverse current		Intensity		Peak wavelength		Spectrum half width		Chip material
			V _F			I _R	Condition	I _V	Condition	λ _P	Condition	Δλ	Condition	
			(V)	I _F	(μA)	V _R		(mcd)		I _F		(nm)		
			typ	max	(mA)	max	(V)	typ	(mA)	typ	(mA)	typ	(mA)	
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			Reverse current		Intensity		Peak wavelength		Spectrum half width		Chip material
			V _F		Condition I _F (mA)	I _R (μA)	Condition V _R (V)	I _V (mcd)	Condition I _F (mA)	λ _P (nm)	Condition I _F (mA)	Δλ (nm)	Condition I _F (mA)	
			typ	max		max		typ		typ		typ		
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