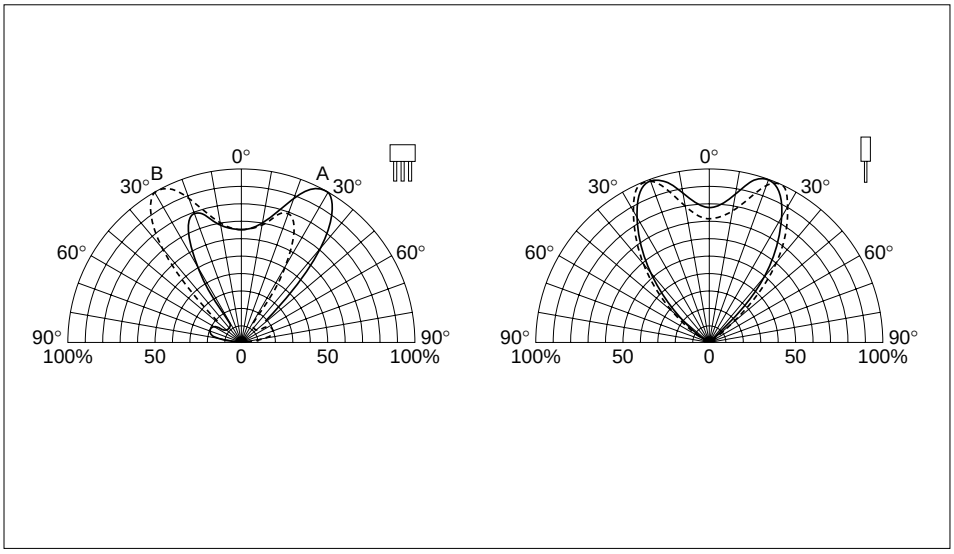
■3.3 × 6 Bow Shaped Bicolor LEDs

SML70023 Series (available as Direct Mount)

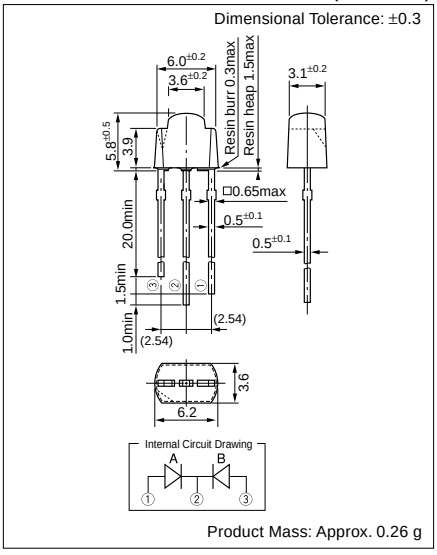
Part Number	Emitting Color		Lens Color	Forward Voltage VF (V) TYP	MAX	Conditions IF (mA)	Luminous Intensity Iv (mcd) TYP	Conditions IF (mA)	Peak Wavelength λP (nm) TYP	Conditions IF (mA)	Dominant Wavelength λd (nm) TYP	Conditions IF (mA)	Spectrum Half Bandwidth Δλ (nm) TYP	Conditions IF (mA)	Chip Material	Remark
SML72423C	A: Red		Water clear	1.9	2.5	10	25	20	630	10	620	10	35	10	GaAsP	Cathode common
	B: Green			2.0	2.5	10	35	20	560	10	567	10	20	10	GaP	
SML72923C	A: Red		Water clear	1.9	2.5	10	25	20	630	10	620	10	35	10	GaAsP	Cathode common
	B: Orange			1.9	2.5	10	25	20	587	10	590	10	33	10	GaAsP	
SML78423C	A: Amber		Water clear	1.9	2.5	10	25	20	610	10	605	10	35	10	GaAsP	Cathode common
	B: Green			2.0	2.5	10	35	20	560	10	567	10	20	10	GaP	
SML79423C	A: Orange		Water clear	1.9	2.5	10	25	20	587	10	590	10	33	10	GaAsP	Cathode common
	B: Green			2.0	2.5	10	35	20	560	10	567	10	20	10	GaP	
SMLS79723C	A: Ultrahigh luminosity orange		Water clear	2.0	2.5	10	150	20	590	10	590	10	15	10	AlGaInP	Cathode common
	B: Yellow			2.0	2.5	10	40	20	570	10	571	10	30	10	GaP	
SMLU76423C-S	A: Ultrahigh luminosity red		Water clear	2.0	2.5	20	26	3	650	20	639	20	20	20	AlGaInP	Cathode common
	B: Green			2.0	2.5	20	3.8	3	560	20	567	20	20	20	GaP	
SMLU72423C-S	Ultrahigh luminosity	A: Red	Water clear	2.0	2.5	20	120	20	635	20	625	20	15	20	AlGaInP	Cathode common
		B: Green		2.2	2.5	20	30	20	560	20	567	20	15	20	AlGaInP	
SMLU79423C-S		A: Orange	Water clear	2.0	2.5	10	150	20	590	20	590	10	15	20	AlGaInP	Cathode common
		B: Green		2.2	2.5	10	30	20	560	20	567	10	15	20	AlGaInP	

*Mass production in preparation

Directional Characteristics (representative example)



External Dimensions (Unit: mm)



Absolute Maximum Ratings

●Visible Light Unicolor Lamp

Parameter	Unit	Ratings						Conditions
		GaP	GaAsP	GaAlAs	AlGaInP	InGaN	GaN	
P_D	mW	75				120		
I_F	mA	30						
ΔIF	mA/°C	−0.45						25°C or higher
IFP	mA	100					70	f=1kHz, tw≤100μs
VR	V	3			5			
Top	°C	−30 to +85					−30 to +80	
Tstg	°C	−30 to +100						

●Visible Light Bicolor Lamp

Parameter	Unit	Ratings					Conditions
		GaP	GaAsP	GaAlAs	AlGaInP	InGaN	
P_D	mW	75				120	Same conditions for simultaneous lighting
I_F	mA	30					
ΔIF	mA/°C	−0.45					25°C or higher
IFP	mA	100					f=1kHz, tw≤100μs
VR	V	4			5		
Top	°C	−30 to +85					
Tstg	°C	−30 to +100					

●Visible Light Unicolor Surface Mount LEDs

Parameter	Unit	Ratings						Conditions
		GaP	GaAsP	GaAlAs	AlGaInP	InGaN	GaN	
I_F	mA	30				20		
ΔIF	mA/°C	−0.45				−0.27		25°C or higher
IFP	mA	100*1				70*2		f=1kHz, tw≤100μs
VR	V	3			5			
Top	°C	−30 to +85				−30 to +80		
Tstg	°C	−30 to +100						

*1: 70mA for SEC1005/1007 Series
*2: 50mA for SEC1005/1007 Series

●Visible Light Bicolor Surface Mount LEDs

Parameter	Unit	Ratings	Conditions
		SEC2002/2004	
P_D	mW	75	
		(Same conditions for simultaneous lighting)	
I_F	mA	30	
ΔIF	mA/°C	−0.45	25°C or higher
IFP	mA	70	f=1kHz, tw≤100μs
VR	V	4	
Top	°C	−30 to +85	
Tstg	°C	−30 to +100	

●Visible Light Three Element Surface Mount LEDs

Parameter	Unit	Ratings		Conditions
		SECT3M02C-S		
		Red	Green/Blue	
P_D	mW	75	120	When one chip lights up (same as green/blue for simultaneous lighting)
I_F	mA	30		
ΔIF	mA/°C	−0.45		25°C or higher
IFP	mA	70	50	f=1kHz, tw≤100μs
VR	V	5		
Top	°C	−30 to +80		
Tstg	°C	−30 to +100		