

SML-52 Series

1315(0605)
1.3×1.5mm(t=0.6mm)

Features

- 2-color type LED
- Abundant 2 color variations

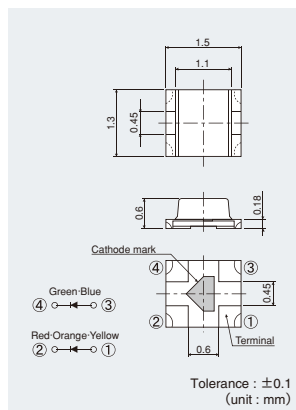


Specifications

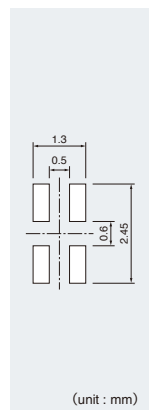
Part No.	Chip Structure	Emitting Color	Absolute Maximum Ratings (Ta=25°C)						Electrical and Optical Characteristics (Ta=25°C)										
			Power Dissipation Pd(mW)	Forward Current If(mA)	Peak Forward Current Ifp(mA)	Reverse Voltage Vr(V)	Operating Temperature Topr(°C)	Storage Temperature Tstg(°C)	Forward Voltage V _F (V)	Reverse Current I _R (μA)	Dominant Wavelength λ _D (nm)			Luminous Intensity I _v (mcd)					
SML522BUW	InGaP	Blue	66	20	60 ₊₂	5	-40 to +85	-40 to +100	2.9	5	10	5	465	470	475	5	9.0	22	5
	AlGaInP on GaAs	Red	50						1.9				619	624	629		10	21	
SML-522MUW	AlGaInP on GaAs	Yellowish Green	52	20	60 ₊₁				2.1				569	572	575		14	40	
		Red	50						1.9				615	620	625		22	63	
SML-522MU8W	AlGaInP on GaAs	Green	52	20	60 ₊₂	4	-30 to +85	-40 to +100	2.2		100		569	572	575		16	40	
		Red	52						2.2				615	620	625		25	63	
SML-521MUW	AlGaInP on GaAs Gap	Yellowish Green	70	25	60 ₊₁				2.2				569	572	575	20	5.6	16	
		Red	50						1.9				615	620	625		22	63	
SML-522MD8W	AlGaInP on GaAs	Green	52	20	100 ₊₂	5	-40 to +85	-40 to +100	2.1	20	10	4	569	572	575		10	18	20
		Orange	52						2.1				602	605	608		40	63	
SML-521MDW	AlGaInP on GaAs Gap	Yellowish Green	70	25	60 ₊₁	4	-30 to +85	-40 to +85	2.2				569	572	575		5.6	16	
		Orange	50						1.9				602	605	608		22	63	
SML-521MYW		Yellowish Green	70	25	60 ₊₁	4	-30 to +85	-40 to +85	2.2				569	572	575		5.6	16	
		Yellow	50	20					1.9				584	587	590		22	63	

* 1:Duty1/5, 200Hz * 2:Duty1/10, 1kHz * 3:R:Reference

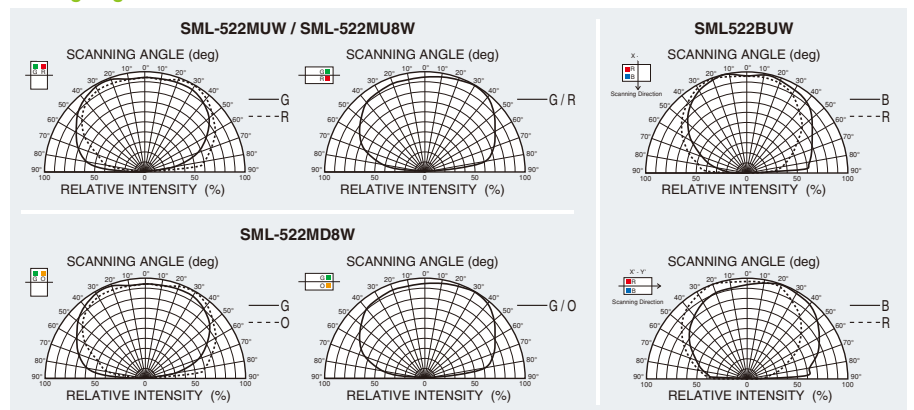
Dimensions



Recommended Solder Pattern

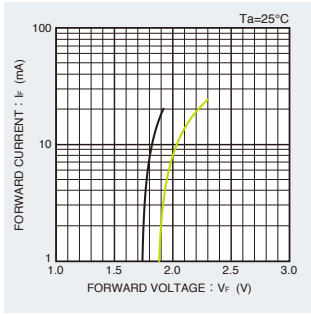


Viewing Angle

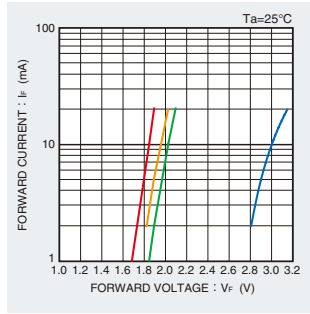


Electrical Characteristics Curves

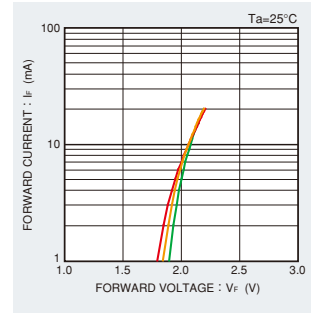
Forward Current-Forward Voltage



- SML-521MU(W)
- SML-521MD(W)
- SML-521MY(W)
- SML-521MU(W)
- SML-521MD(W)
- SML-521MY(W)

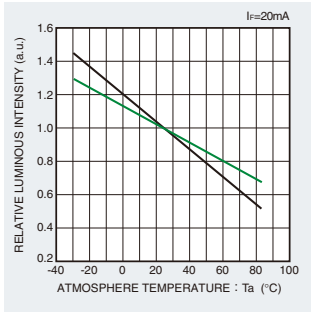


- SML-522BU(W)
- SML-522BU(W)
- SML-522BU(W)
- SML-522MU(W)

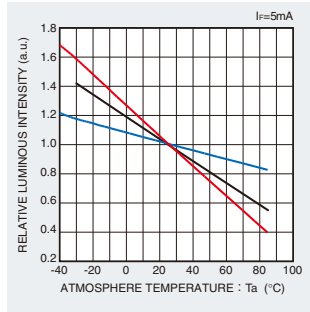


- SML-522MU8(W)
- SML-522MU8(W)
- SML-522MD8(W)
- SML-522MD8(W)

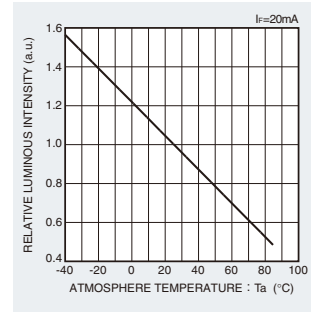
Luminous Intensity-Atmosphere Temperature



- SML-521MU(W)
- SML-521MD(W)
- SML-521MY(W)
- SML-521MU(W)
- SML-521MD(W)
- SML-521MY(W)

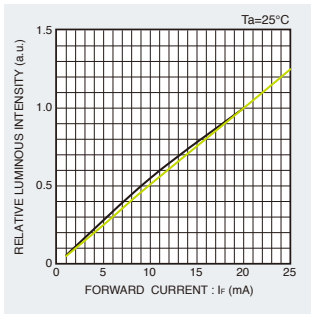


- SML-522BU(W)
- SML-522BU(W)
- SML-522MU(W)

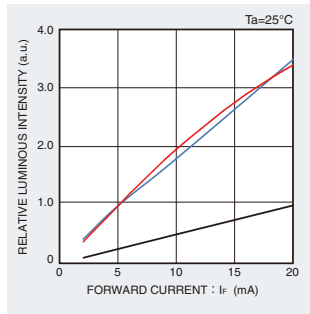


- SML-522MU8(W)
- SML-522MD8(W)

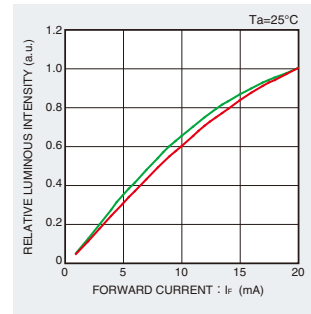
Luminous Intensity-Forward Current



- SML-521MU(W)
- SML-521MD(W)
- SML-521MY(W)
- SML-521MU(W)
- SML-521MD(W)
- SML-521MY(W)

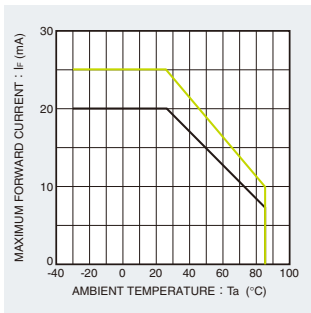


- SML-522BU(W)
- SML-522BU(W)
- SML-522MU(W)

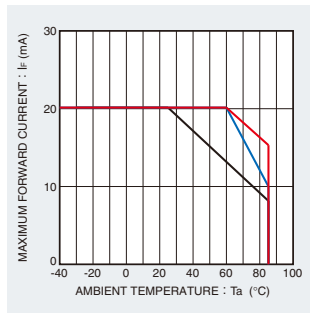


- SML-522MU8(W)
- SML-522MD8(W)
- SML-522MU8(W)
- SML-522MD8(W)

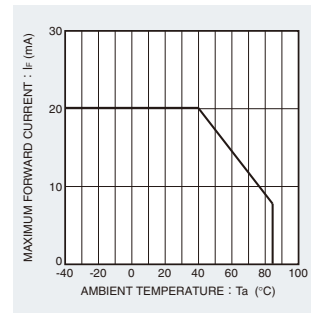
Derating



- SML-521MU(W)
- SML-521MD(W)
- SML-521MY(W)
- SML-521MU(W)
- SML-521MD(W)
- SML-521MY(W)



- SML-522BU(W)
- SML-522BU(W)
- SML-522MU(W)



- SML-522MU8(W)
- SML-522MD8(W)

Notes

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