

Electro-Optical Characteristics :

 $I_F @ 20\text{mA}, T_a 25^\circ\text{C}$

Code for parts	Lighting Color	Material	V _F (V)		λ (nm)			I _v * (mcd)
			typ.	max	λ _D	λ _P	Δλ	typ.
MLM-S91NB	Blue	InGaN	3.6	4.2	470	480	45	56
MLM-S91NG	Green	InGaN	3.6	4.2	525	523	40	80
MLM-S91CB	Blue	InGaN	3.8	4.5	470	468	26	50
MLM-S91CG	Green	InGaN	3.8	4.5	525	523	36	75
MLM-S91CW	White	InGaN	3.8	4.5	X=0.29 Y=0.31	468	-	100
MLM-S91NW	White	InGaN	3.6	4.2	X=0.29 Y=0.31	468	-	130

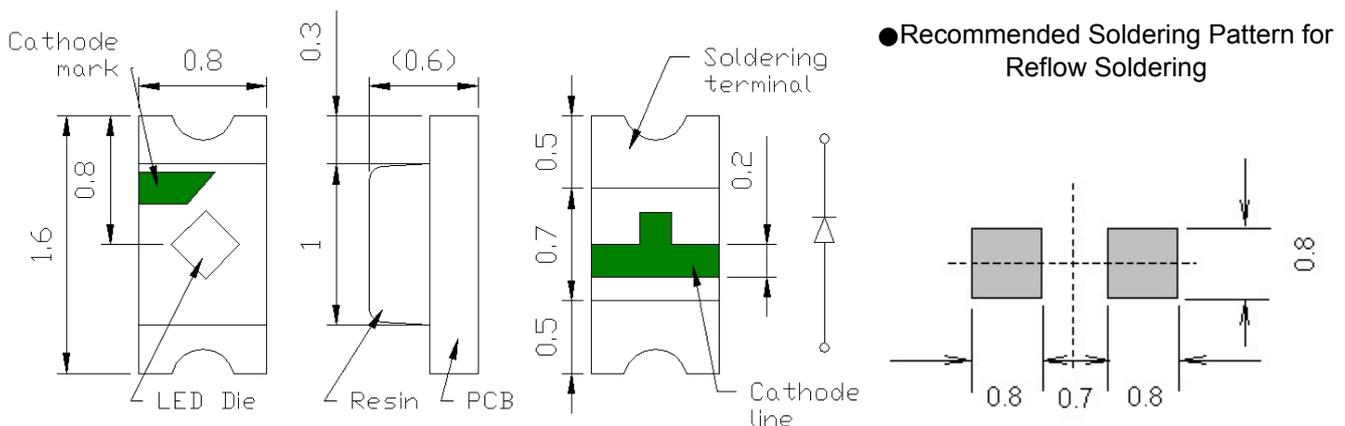
Absolute Maximum Ratings :

(T_a25°C)

Series	P _d (mW)	I _F (mA)	I _{FP} (mA)	V _R (V)	I _R (μA)	T _{OP} (°C)	T _{ST} (°C)
MLM-S91CG/CB	90	20	100**	5	<100@ V _R =5	-30~+80	-40~+85
MLM-S91NB/NG/NW	84	20	80**				

**Condition for I_{FP} is pulse of 1/10 duty and 0.1msec width

Package Outline Dimensions :



All dimension in mm

Drawing no scale

Tol.: +/-0.1mm



MICRO ELECTRONICS LTD.

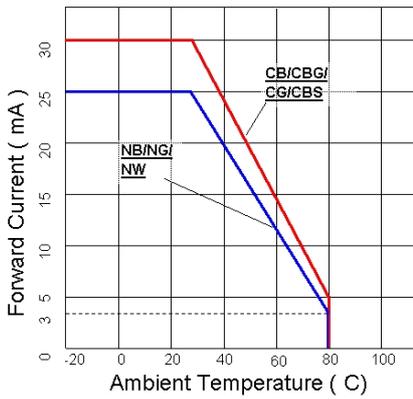
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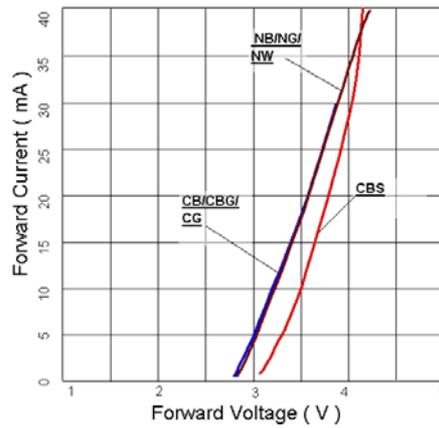
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Characteristics of MLM-S91 series :

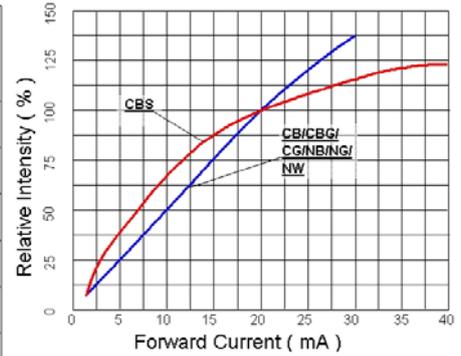
Forward Current vs. Ambient Temperature



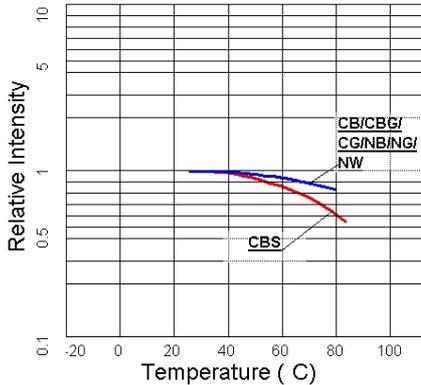
Forward Voltage vs. Forward Current



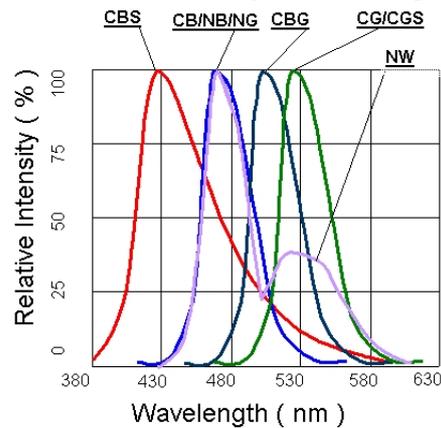
Relative Intensity vs. Forward Current



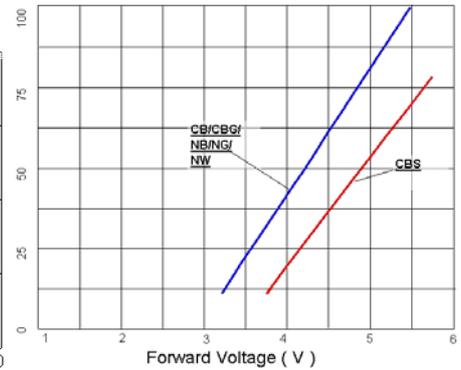
Relative Intensity vs. Ambient Temperature
Plused 20mA, 300us pulse, 10ms period



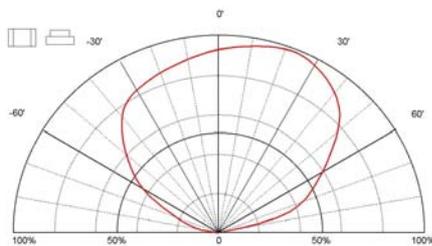
Relative Intensity vs. Wavelength



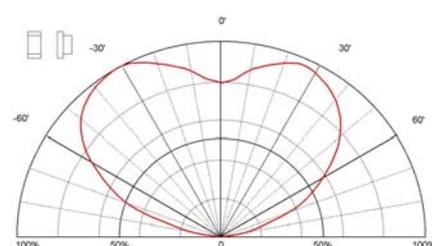
Peak Forward Voltage vs. Forward Current
100% test pulse, 1% duty cycle



Directive Characteristics



Directive Characteristics



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