

### Electro-Optical Characteristics :

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

Code for parts	Lighting Color	Material	$V_F$ (V)		$\lambda$ (nm)			$I_V^*$ (mcd)
			typ.	max	$\lambda_D$	$\lambda_P$	$\Delta\lambda$	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

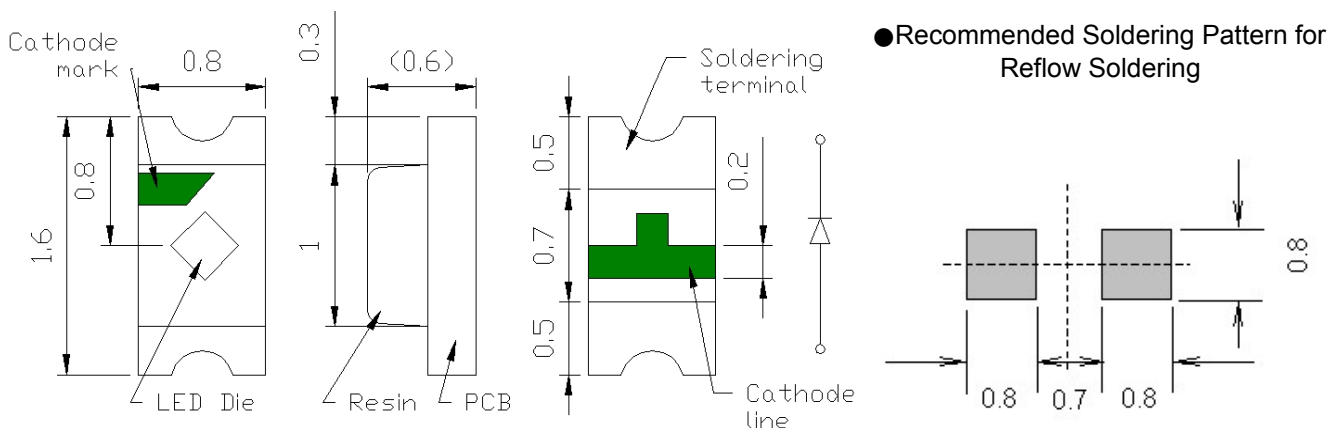
### Absolute Maximum Ratings :

( $T_a 25^\circ\text{C}$ )

Series	$P_d$ (mW)	$I_F$ (mA)	$I_{FP}$ (mA)	$V_R$ (V)	$I_R$ ( $\mu\text{A}$ )	$T_{OP}$ ( $^\circ\text{C}$ )	$T_{ST}$ ( $^\circ\text{C}$ )
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

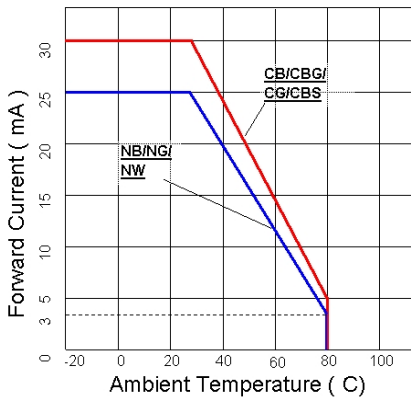


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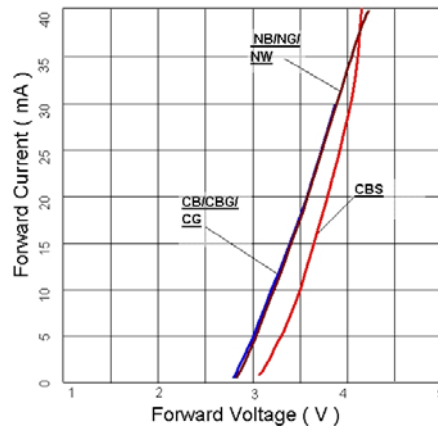
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Kwun Tong P.O. BOX 69477, Hong Kong. TEL: (852) 23430181 FAX: (852) 23410321  
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### Characteristics of MLM-S91 series :

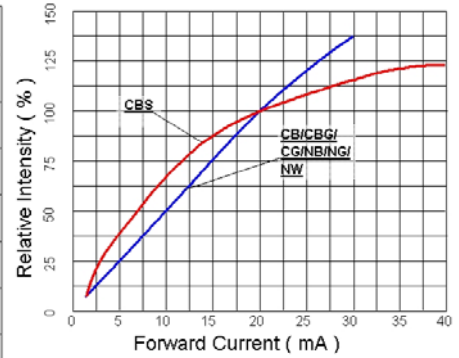
Forward Current vs. Ambient Temperature



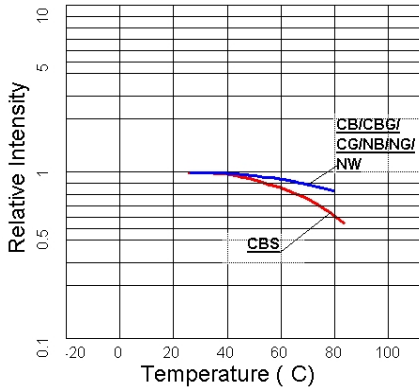
Forward Voltage vs. Forward Current



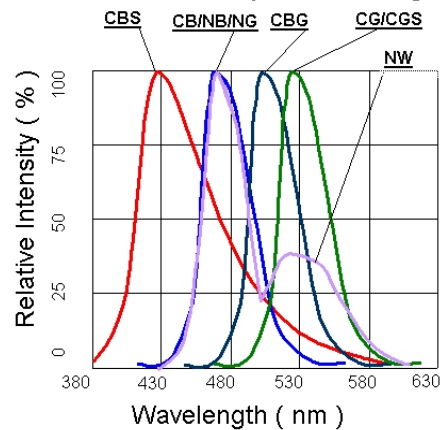
Relative Intensity vs. Forward Current



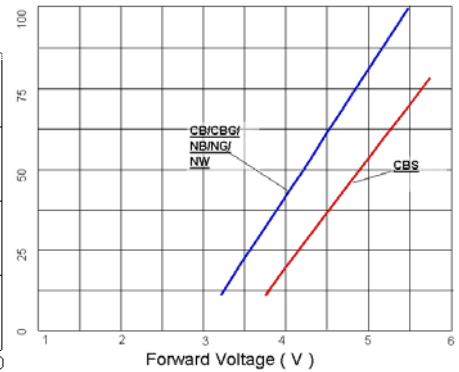
Relative Intensity vs. Ambient Temperature  
Plused 20mA, 300us pulse, 10ms period



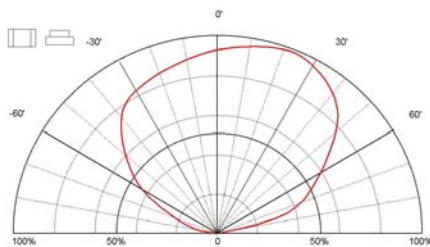
Relative Intensity vs. Wavelength



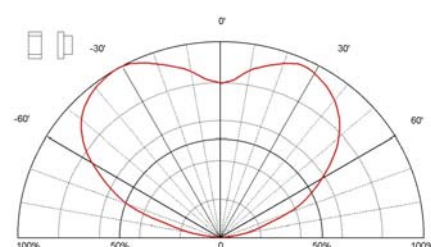
Peak Forward Voltage vs. Forward Current  
100% test pulse, 1% duty cycle



Directive Characteristics



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