

LED DOT MATRIX
BL-M14X581xx
■ Features:

- 37.40mm (1.4") F 3.0 dot matrix LED display, bi-color
- Low current operation.
- Excellent character appearance.
- Easy mounting on P.C. Boards or sockets.
- I.C. Compatible.
- ROHS Compliance.


Electrical-optical characteristics: (Ta=25) (Test Condition: IF=20mA)

Part No		Chip			VF Unit:V		Iv TYP.(mcd)
Row Cathode Column Anode	Row Anode Column Cathode	Emitted Color	Material	λ _p (nm)	Typ	Max	
BL-M14A581SG-XX	BL-M14B581SG-XX	Super Red	AlGaInP	660	2.10	2.50	100
		Green	GaP/GaP	570	2.20	2.50	95
BL-M14A581EG-XX	BL-M14B581EG-XX	Orange	GaAsP/GaP	635	2.10	2.50	90
		Green	GaP/GaP	570	2.20	2.50	95
BL-M14A581DUG-XX	BL-M14B581DUG-XX	Ultra Red	AlGaInP	660	2.10	2.50	110
		Ultra Green	AlGaInP	574	2.20	2.50	130
BL-M14A581UEUG-XX	BL-M14B581UEUG-XX	Ultra Orange	AlGaInP	630	2.10	2.50	100
		Ultra Green	AlGaInP	574	2.20	2.50	130

■ -XX: Surface / Lens color :

Number	0	1	2	3	4	5
Ref Surface Color	White	Black	Gray	Red	Green	
Epoxy Color	Water clear	White diffused	Red Diffused	Green Diffused	Yellow Diffused	

■ Absolute maximum ratings (Ta=25°C)

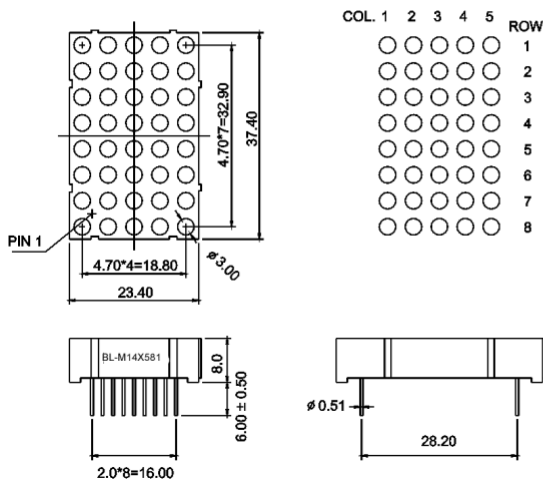
Parameter	S	G	E	D	UG	UE		Unit
Forward Current I _F	30	30	30	30	30	30		mA
Power Dissipation P _d	75	80	80	75	75	65		mW
Reverse Voltage V _R	5	5	5	5	5	5		V
Peak Forward Current I _{PF} (Duty 1/10 @ 1KHZ)	150	150	150	150	150	150		mA
Operation Temperature T _{OPR}	-40 to +80							
Storage Temperature T _{STG}	-40 to +85							
Lead Soldering Temperature T _{SOL}	Max.260±5 for 3 sec Max. (1.6mm from the base of the epoxy bulb)							

LED DOT MATRIX

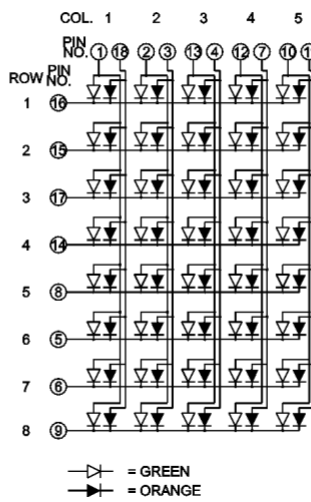
BL-M14X581xx

Package configuration & Internal circuit diagram

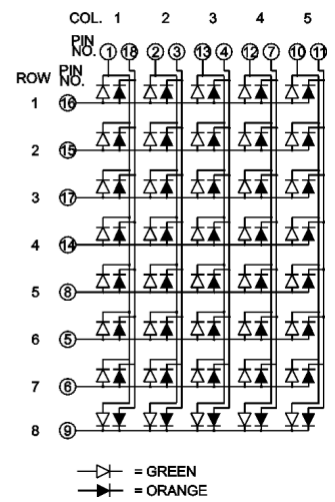
BL-M14X581 Series



BL-M14A581xx



BL-M14B581XX



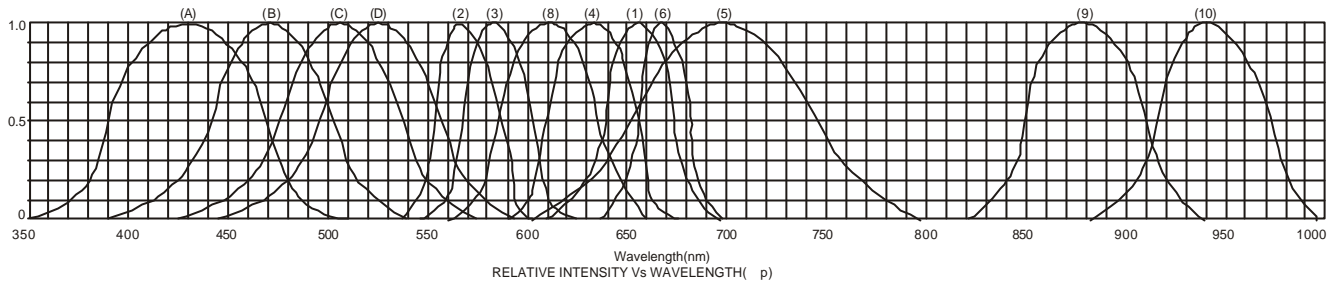
Notes:

1. All dimensions are in millimeters (inches)
2. Tolerance is $\pm 0.25(0.01)$ unless otherwise noted.
3. Specifications are subject to change without notice.

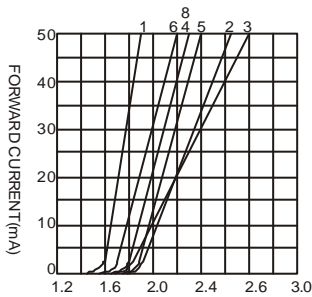
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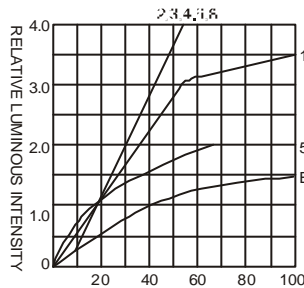
Typical electrical-optical characteristics curves:



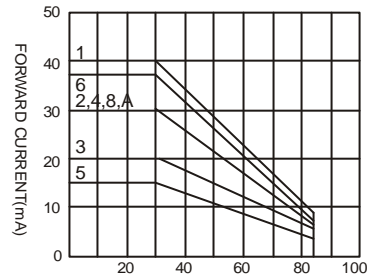
- (1) - GaAsP/GaAs 655nm/Red
- (2) - GaP 570nm/Yellow Green
- (3) - GaAsP/GaP 585nm/Yellow
- (4) - GaAsP/GaP 635nm/Orange & Hi-Eff Red
- (5) - GaP 700nm/Bright Red
- (6) - GaAlAs/GaAs 660nm/Super Red
- (8) - GaAsP/GaP 610nm/Super Red
- (9) - GaAlAs 880nm
- (10) - GaAs/GaAs & GaAlAs/GaAs 940nm
- (A) - GaN/SiC 430nm/Blue
- (B) - InGaN/SiC 470nm/Blue
- (C) - InGaN/SiC 505nm/Ultra Green
- (D) - InGaAl/SiC 525nm/Ultra Green



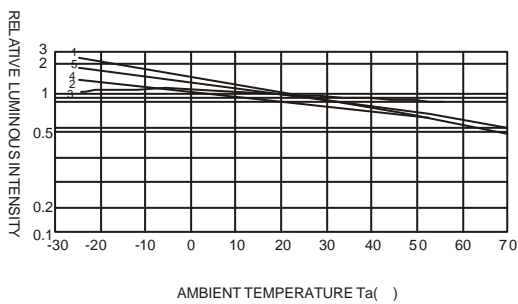
FORWARD VOLTAGE (Vf)
FORWARD CURRENT VS.
FORWARD VOLTAGE



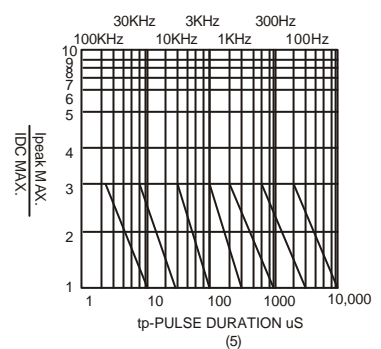
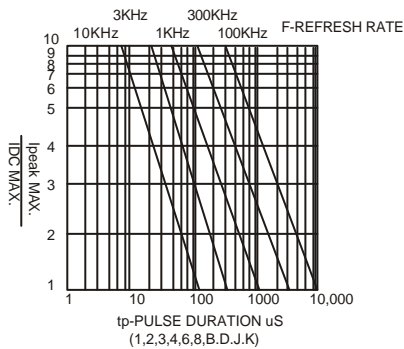
FORWARD CURRENT (mA)
RELATIVE LUMINOUS
INTENSITY VS. FORWARD
CURRENT



AMBIENT TEMPERATURE Ta()
FORWARD CURRENT VS. AMBIENT
TEMPERATURE



AMBIENT TEMPERATURE Ta()



NOTE:25 free air temperature unless otherwise specified