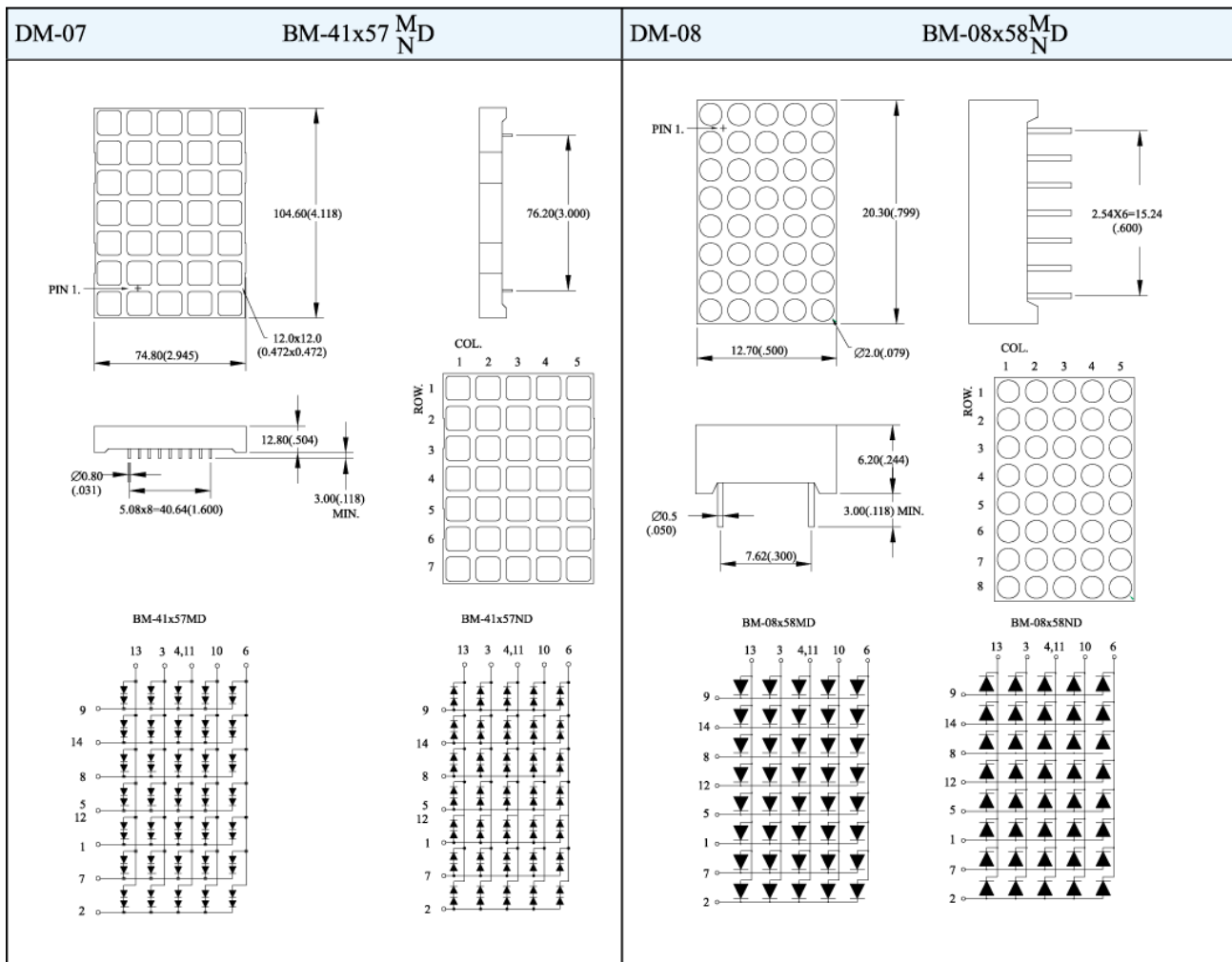




LED Dot Matrix Display BM Series

Single Color, 5 x 7 & 5 x 8 Dot Matrix Displays

Digit Size	Part No.		Chip		Absolute Maximum Ratings				Electro-optical Data (At 10mA)			Drawing No.	
	Column Common Anode	Column Common Cathode	Material/Emitted Color	Peak Wave Length λ_p (nm)	$\Delta \lambda$ (nm)	Pd (mw)	If (mA)	Ifp (mA)	Vf (v)		Iv. Typ. Per.Seg. (mcd)		
									Typ.	Max.			
4.00" High 12.0*12.0 mm	BM-41257MD	BM-41257ND	GaP/ GaP/ Yellow Green	568	30	160	30	150	4.2	5.0	15.0	DM-07	
	BM-41457MD	BM-41457ND	GaAsP/GaP/ Hi-Eff.Red	635	45	160	30	150	4.0	5.0	15.0		
	BM-41457MA	BM-41457NA	GaAsP/GaP/ Hi-Eff.Red	635	45	160	30	150	4.0	5.0	23.0		
	BM-41657MD	BM-41657ND	GaAlAs/ SH/ Super Red	660	20	160	30	150	3.4	5.0	20.0		
	BM-41657MA	BM-41657NA	GaAlAs/ SH/ Super Red	660	20	160	30	150	3.4	5.0	25.0		
	BM-41F57MD	BM-41F57ND	GaAlAs/ DDH/ Super Red	660	20	160	30	150	4.0	5.0	20.0		
	BM-41J57MD	BM-41J57ND	AlGaInP/GaAs/ Ultra Orange	620	17	160	30	150	4.0	5.0	32.0		
	BM-41K57MD	BM-41K57ND	AlGaInP/GaAs/ Ultra Yellow	592	15	160	30	150	4.2	5.0	35.0		
0.80" High ϕ 2.0	BM-08258MD	BM-08258ND	GaP/ GaP/ Yellow Green	568	30	80	30	150	2.1	2.5	8.0	DM-08	
	BM-08458MD	BM-08458ND	GaAsP/GaP/ Hi-Eff.Red	635	45	80	30	150	2.0	2.5	8.0		
	BM-08458MA	BM-08458NA	GaAsP/GaP/ Hi-Eff.Red	635	45	80	30	150	2.0	2.5	12.0		
	BM-08658MD	BM-08658ND	GaAlAs/ SH/ Super Red	660	20	80	30	150	1.7	2.5	12.0		
	BM-08658MA	BM-08658NA	GaAlAs/ SH/ Super Red	660	20	80	30	150	1.7	2.5	16.0		
	BM-08F58MD	BM-08F58ND	GaAlAs/ DDH/ Super Red	660	20	80	30	150	2.0	2.5	18.0		
	BM-08J58MD	BM-08J58ND	AlGaInP/GaAs/ Ultra Orange	620	17	80	30	150	2.0	2.5	20.0		
	BM-08K58MD	BM-08K58ND	AlGaInP/GaAs/ Ultra Yellow	592	15	80	30	150	2.1	2.5	20.0		



NOTES: 1.All Dimensions are in millimeters(inches).

3.Specifications are subject to change without notice.

2.Tolerance is $\pm 0.25\text{mm}(.010")$.

4.NP:No Pin.

5.NC:No Connect.

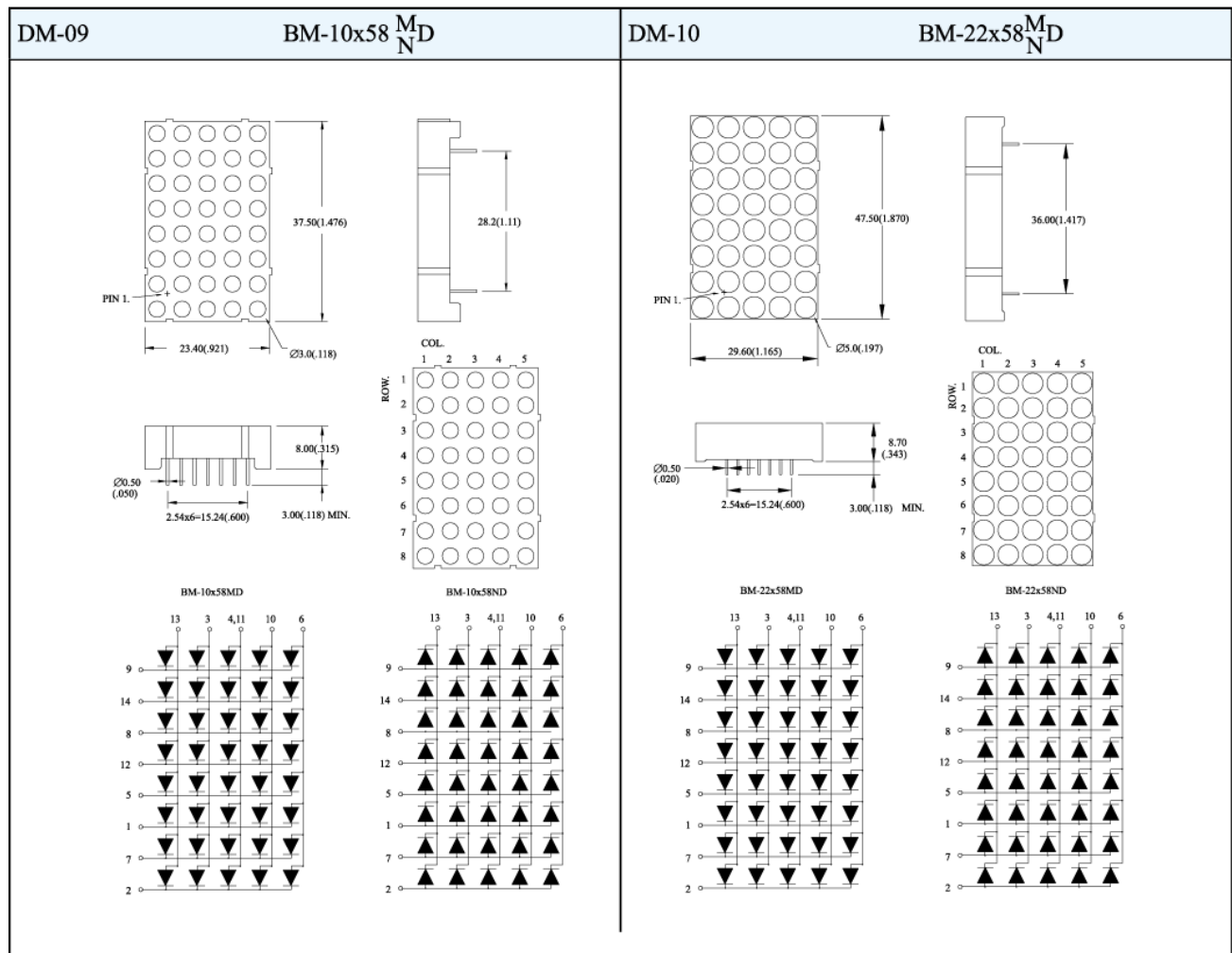
AMERICAN BRIGHT



LED Dot Matrix Display BM Series

Single Color, 5 x 8 Dot Matrix Displays

Digit Size	Part No.		Chip		Absolute Maximum Ratings				Electro-optical Data(At 10mA)			Drawing No.	
	Column Common Anode	Column Common Cathode	Material/Emitted Color	Peak Wave Length λ_p (nm)	$\Delta \lambda$ (nm)	Pd (mw)	If (mA)	Ifp (mA)	Vf (v)		Iv. Typ. Per.Seg. (mcd)		
									Typ.	Max.			
1.50" High ϕ 3.0	BM-10258MD	BM-10258ND	GaP/ GaP/ Yellow Green	568	30	80	30	150	2.1	2.5	9.0	DM-09	
	BM-10458MD	BM-10458ND	GaAsP/GaP/ Hi-Eff.Red	635	45	80	30	150	2.0	2.5	9.0		
	BM-10458MA	BM-10458NA	GaAsP/GaP/ Hi-Eff.Red	635	45	80	30	150	2.0	2.5	9.0		
	BM-10658MD	BM-10658ND	GaAlAs/ SH/ Super Red	660	20	80	30	150	1.7	2.5	13.0		
	BM-10658MA	BM-10658NA	GaAlAs/ SH/ Super Red	660	20	80	30	150	1.7	2.5	17.0		
	BM-10F58MD	BM-10F58ND	GaAlAs/ DDH/ Super Red	660	20	80	30	150	2.0	2.5	20.0		
	BM-10J58MD	BM-10J58ND	AlGaInP/GaAs/ Ultra Orange	620	17	80	30	150	2.0	2.5	22.0		
	BM-10K58MD	BM-10K58ND	AlGaInP/GaAs/ Ultra Yellow	592	15	80	30	150	2.1	2.5	22.0		
1.90" High ϕ 5.0	BM-22258MD	BM-22258ND	GaP/ GaP/ Yellow Green	568	30	80	30	150	2.1	2.5	10.0	DM-10	
	BM-22458MD	BM-22458ND	GaAsP/GaP/ Hi-Eff.Red	635	45	80	30	150	2.0	2.5	10.0		
	BM-22458MA	BM-22458NA	GaAsP/GaP/ Hi-Eff.Red	635	45	80	30	150	2.0	2.5	15.0		
	BM-22658MD	BM-22658ND	GaAlAs/ SH/ Super Red	660	20	80	30	150	1.7	2.5	18.0		
	BM-22658MA	BM-22658NA	GaAlAs/ SH/ Super Red	660	20	80	30	150	1.7	2.5	25.0		
	BM-22F58MD	BM-22F58ND	GaAlAs/ DDH/ Super Red	660	20	80	30	150	2.0	2.5	23.0		
	BM-22J58MD	BM-22J58ND	AlGaInP/GaAs/ Ultra Orange	620	17	80	30	150	2.0	2.5	25.0		
	BM-22K58MD	BM-22K58ND	AlGaInP/GaAs/ Ultra Yellow	592	15	80	30	150	2.1	2.5	25.0		



NOTES: 1.All Dimensions are in millimeters(inches).
3.Specifications are subject to change without notice.

2.Tolerance is $\pm 0.25\text{mm}(.010")$.
4.NP:No Pin. 5.NC:No Connect.

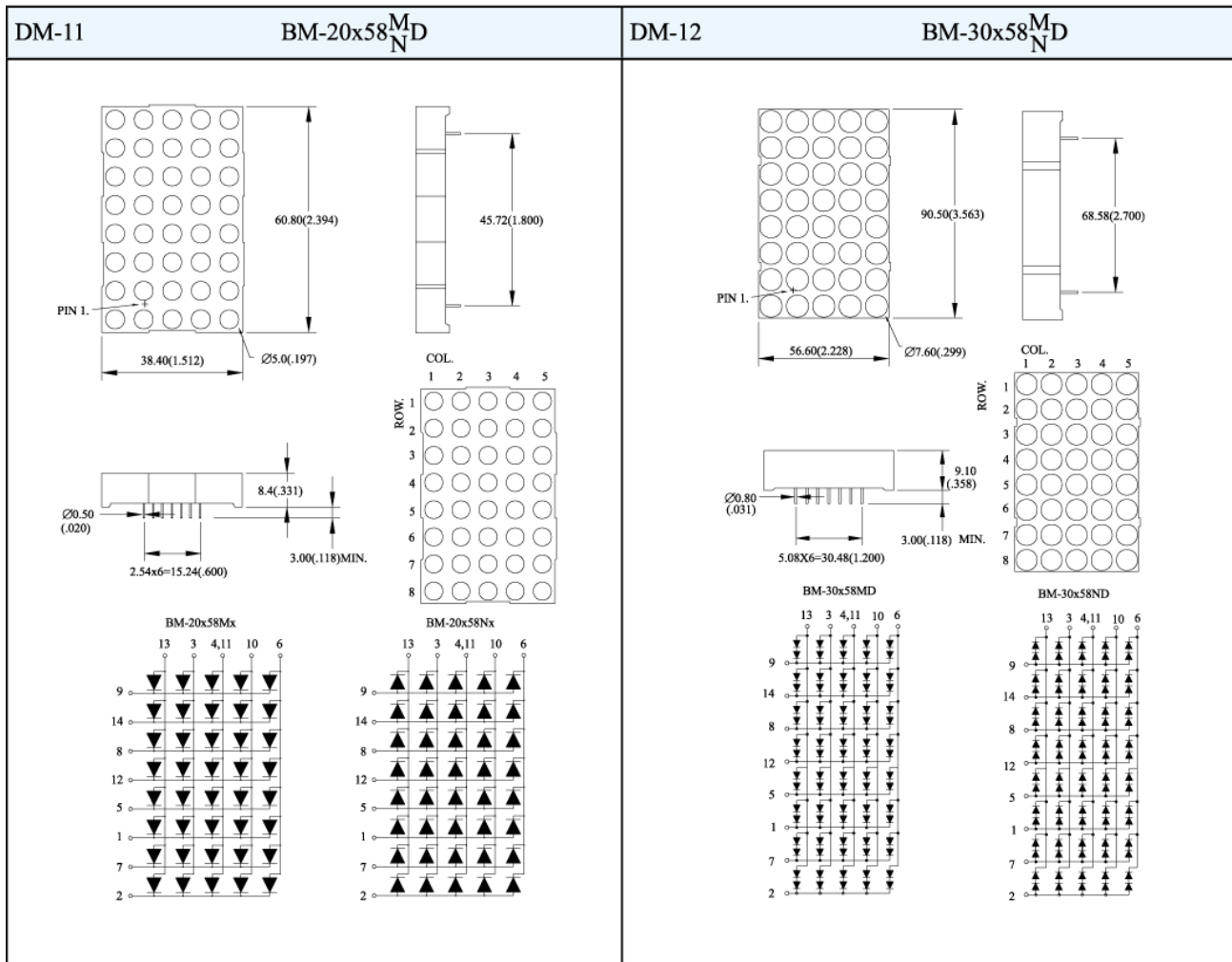
AMERICAN BRIGHT



LED Dot Matrix Display BM Series

Single Color, 5 x 8 Dot Matrix Displays

Digit Size	Part No.		Chip		Absolute Maximum Ratings				Electro-optical Data(At 10mA)			Drawing No.	
	Column Common Anode	Column Common Cathode	Material/Emitted Color	Peak Wave Length λ_p (nm)	$\Delta \lambda$ (nm)	Pd (mw)	If (mA)	Ifp (mA)	Vf (v)		Iv. Typ. Per.Seg. (mcd)		
									Typ.	Max.			
2.30" High ϕ 5.0	BM-20258MD	BM-20258ND	GaP/ GaP/ Yellow Green	568	30	80	30	150	2.1	2.5	10.0	DM-11	
	BM-20458MD	BM-20458ND	GaAsP/GaP/ Hi-Eff.Red	635	45	80	30	150	2.0	2.5	10.0		
	BM-20458MA	BM-20458NA	GaAsP/GaP/ Hi-Eff.Red	635	45	80	30	150	2.0	2.5	15.0		
	BM-20658MD	BM-20658ND	GaAlAs/ SH/ Super Red	660	20	80	30	150	1.7	2.5	18.0		
	BM-20658MA	BM-20658NA	GaAlAs/ SH/ Super Red	660	20	80	30	150	1.7	2.5	25.0		
	BM-20F58MD	BM-20F58ND	GaAlAs/ DDH/ Super Red	660	20	80	30	150	2.0	2.5	23.0		
	BM-20J58MD	BM-20J58ND	AlGaInP/GaAs/ Ultra Orange	620	17	80	30	150	2.0	2.5	25.0		
	BM-20K58MD	BM-20K58ND	AlGaInP/GaAs/ Ultra Yellow	592	15	80	30	150	2.1	2.5	25.0		
3.50" High ϕ 7.6	BM-30258MD	BM-30258ND	GaP/ GaP/ Yellow Green	568	30	160	30	150	4.2	5.0	12.0	DM-12	
	BM-30458MD	BM-30458ND	GaAsP/GaP/ Hi-Eff.Red	635	45	160	30	150	4.0	5.0	12.0		
	BM-30458MA	BM-30458NA	GaAsP/GaP/ Hi-Eff.Red	635	45	160	30	150	4.0	5.0	16.0		
	BM-30658MD	BM-30658ND	GaAlAs/ SH/ Super Red	660	20	160	30	150	3.4	5.0	20.0		
	BM-30658MA	BM-30658NA	GaAlAs/ SH/ Super Red	660	20	160	30	150	3.4	5.0	25.0		
	BM-30F58MD	BM-30F58ND	GaAlAs/ DDH/ Super Red	660	20	160	30	150	4.0	5.0	25.0		
	BM-30J58MD	BM-30J58ND	AlGaInP/GaAs/ Ultra Orange	620	17	160	30	150	4.0	5.0	26.0		
	BM-30K58MD	BM-30K58ND	AlGaInP/GaAs/ Ultra Yellow	592	15	160	30	150	4.2	5.0	26.0		



NOTES: 1.All Dimensions are in millimeters(inches).

3.Specifications are subject to change without notice.

2.Tolerance is $\pm 0.25\text{mm}(.010")$.

4.NP:No Pin.

5.NC:No Connect.

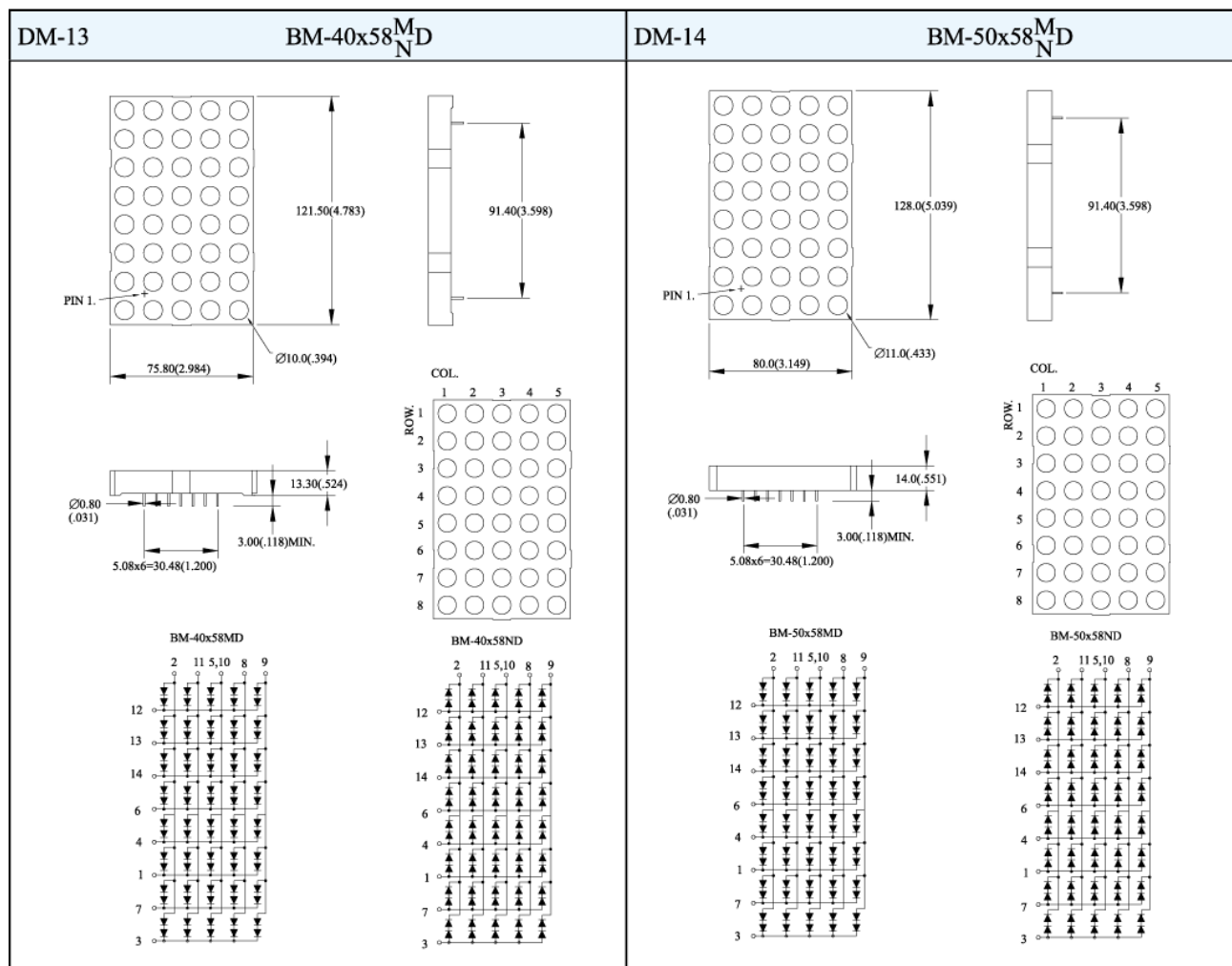
AMERICAN BRIGHT



LED Dot Matrix Display BM Series

Single Color, 5 x 8 Dot Matrix Displays

Digit Size	Part No.		Chip		Absolute Maximum Ratings				Electro-optical Data(At 10mA)			Drawing No.	
	Column Common Anode	Column Common Cathode	Material/Emitted Color	Peak Wave Length λ_p (nm)	$\Delta \lambda$ (nm)	Pd (mw)	If (mA)	Ifp (mA)	Vf (v)		Iv. Typ. Per.Seg. (mcd)		
									Typ.	Max.			
4.78" High ϕ 10.0	BM-40258MD	BM-40258ND	GaP/ GaP/ Yellow Green	568	30	160	30	150	4.2	5.0	12.0	DM-13	
	BM-40458MD	BM-40458ND	GaAsP/GaP/ Hi-Eff.Red	635	45	160	30	150	4.0	5.0	12.0		
	BM-40458MA	BM-40458NA	GaAsP/GaP/ Hi-Eff.Red	635	45	160	30	150	4.0	5.0	16.0		
	BM-40658MD	BM-40658ND	GaAlAs/ SH/ Super Red	660	20	160	30	150	3.4	5.0	20.0		
	BM-40658MA	BM-40658NA	GaAlAs/ SH/ Super Red	660	20	160	30	150	3.4	5.0	25.0		
	BM-40F58MD	BM-40F58ND	GaAlAs/ DDH/ Super Red	660	20	160	30	150	4.0	5.0	25.0		
	BM-40J58MD	BM-40J58ND	AlGaInP/GaAs/ Ultra Orange	620	17	160	30	150	4.0	5.0	26.0		
	BM-40K58MD	BM-40K58ND	AlGaInP/GaAs/ Ultra Yellow	592	15	160	30	150	4.2	5.0	26.0		
5.00" High ϕ 11.0	BM-50258MD	BM-50258ND	GaP/ GaP/ Yellow Green	568	30	160	30	150	4.2	5.0	12.0	DM-14	
	BM-50458MD	BM-50458ND	GaAsP/GaP/ Hi-Eff.Red	635	45	160	30	150	4.0	5.0	12.0		
	BM-50458MA	BM-50458NA	GaAsP/GaP/ Hi-Eff.Red	635	45	160	30	150	4.0	5.0	16.0		
	BM-50658MD	BM-50658ND	GaAlAs/ SH/ Super Red	660	20	160	30	150	3.4	5.0	20.0		
	BM-50658MA	BM-50658NA	GaAlAs/ SH/ Super Red	660	20	160	30	150	3.4	5.0	25.0		
	BM-50F58MD	BM-50F58ND	GaAlAs/ DDH/ Super Red	660	20	160	30	150	4.0	5.0	25.0		
	BM-50J58MD	BM-50J58ND	AlGaInP/GaAs/ Ultra Orange	620	17	160	30	150	4.0	5.0	26.0		
	BM-50K58MD	BM-50K58ND	AlGaInP/GaAs/ Ultra Yellow	592	15	160	30	150	4.2	5.0	26.0		



NOTES: 1.All Dimensions are in millimeters(inches).
3.Specifications are subject to change without notice.

2.Tolerance is $\pm 0.25\text{mm}(.010")$.
4.NP:No Pin. 5.NC:No Connect.

AMERICAN BRIGHT