



Dual Digit LED Displays BD-A/C, BD-E/F Series

7-segment

Digit Size	Part No.		Chip		Absolute Maximum Ratings				Electro-optical Data(At 10mA)			Drawing No.
	Common Anode	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.		
0.30" Dual-Digit	BD-E311RD	BD-F311RD	GaAsP/Red	655	40	80	40	200	1.7	2.0	0.5	DD-07
	BD-E315RD	BD-F315RD	GaP/ Bright Red	700	90	40	15	50	2.2	2.5	1.0	
	BD-E315RE	BD-F315RE										
	BD-E312RD	BD-F312RD	GaP/ Green	568	30	80	30	150	2.2	2.5	2.5	
	BD-E313RD	BD-F313RD	GaAsP/GaP/ Yellow	585	35	80	30	150	2.1	2.5	2.0	
	BD-E314RD	BD-F314RD	GaAsP/GaP/ Hi-Eff.Red	635	45	80	30	150	2.0	2.5	2.5	
			GaAsP/GaP/ Orange									
	BD-E316RD	BD-F316RD	GaAlAs/ SH Super Red	660	20	80	30	150	1.7	2.5	5.0	
BD-E31DRD	BD-F31DRD	GaAlAs/ DH Super Red	660	20	80	30	150	1.7	2.5	6.0		
0.36" Dual-Digit	BD-E321RD	BD-F321RD	GaAsP/Red	655	40	80	40	200	1.7	2.0	0.6	DD-08
	BD-E325RD	BD-F325RD	GaP/ Bright Red	700	90	40	15	50	2.2	2.5	1.2	
	BD-E325RE	BD-F325RE										
	BD-E322RD	BD-F322RD	GaP/ Green	568	30	80	30	150	2.2	2.5	3.0	
	BD-E323RD	BD-F323RD	GaAsP/GaP/ Yellow	585	35	80	30	150	2.1	2.5	2.0	
	BD-E324RD	BD-F324RD	GaAsP/GaP/ Hi-Eff.Red	635	45	80	30	150	2.0	2.5	3.0	
			GaAsP/GaP/ Orange									
	BD-E326RD	BD-F326RD	GaAlAs/ SH Super Red	660	20	80	30	150	1.7	2.5	6.0	
BD-E32DRD	BD-F32DRD	GaAlAs/ DH Super Red	660	20	80	30	150	1.7	2.5	7.0		
0.39" Dual-Digit	BD-A431ND	BD-C431ND	GaAsP/Red	655	40	80	40	200	1.7	2.0	0.8	DD-09
	BD-A435ND	BD-C435ND	GaP/ Bright Red	700	90	40	15	50	2.2	2.5	1.5	
	BD-A435ND	BD-C435ND										
	BD-A432ND	BD-C432ND	GaP/ Green	568	30	80	30	150	2.2	2.5	3.5	
	BD-A433ND	BD-C433ND	GaAsP/GaP/ Yellow	585	35	80	30	150	2.1	2.5	2.5	
	BD-A434ND	BD-C434ND	GaAsP/GaP/ Hi-Eff.Red	635	45	80	30	150	2.0	2.5	3.5	
			GaAsP/GaP/ Orange									
	BD-A436ND	BD-C436ND	GaAlAs/ SH Super Red	660	20	80	30	150	1.7	2.5	6.5	
BD-A43DND	BD-C43DND	GaAlAs/ DH Super Red	660	20	80	30	150	1.7	2.5	7.5		
0.40" Dual-Digit	BD-A401ND	BD-C401ND	GaAsP/Red	655	40	80	40	200	1.7	2.0	0.8	DD-10
	BD-A405ND	BD-C405ND	GaP/ Bright Red	700	90	40	15	50	2.2	2.5	1.5	
	BD-A405NE	BD-C405NE										
	BD-A402ND	BD-C402ND	GaP/ Green	568	30	80	30	150	2.2	2.5	3.5	
	BD-A403ND	BD-C403ND	GaAsP/GaP/ Yellow	585	35	80	30	150	2.1	2.5	2.5	
	BD-A404NE	BD-C404NE	GaAsP/GaP/ Hi-Eff.Red	635	45	80	30	150	2.0	2.5	3.5	
			GaAsP/GaP/ Orange									
	BD-A406ND	BD-C406ND	GaAlAs/ SH Super Red	660	20	80	30	150	1.7	2.5	6.5	
BD-A40DND	BD-C40DND	GaAlAs/ DH Super Red	660	20	80	30	150	1.7	2.5	7.5		
0.40" Dual-Digit	BD-A401ND-A	BD-C401ND-A	GaAsP/Red	655	40	80	40	200	1.7	2.0	0.8	DD-11
	BD-A405ND-A	BD-C405ND-A	GaP/ Bright Red	700	90	40	15	50	2.2	2.5	1.5	
	BD-A405NE-A	BD-C405NE-A										
	BD-A402ND-A	BD-C402ND-A	GaP/ Green	568	30	80	30	150	2.2	2.5	3.5	
	BD-A403ND-A	BD-C403ND-A	GaAsP/GaP/ Yellow	585	35	80	30	150	2.1	2.5	2.5	
	BD-A404NE-A	BD-C404NE-A	GaAsP/GaP/ Hi-Eff.Red	635	45	80	30	150	2.0	2.5	3.5	
			GaAsP/GaP/ Orange									
	BD-A406ND-A	BD-C406ND-A	GaAlAs/ SH Super Red	660	20	80	30	150	1.7	2.5	6.5	
	BD-A40DND-A	BD-C40DND-A	GaAlAs/ DH Super Red	660	20	80	30	150	1.7	2.5	7.5	
	BD-E401RD	BD-F401RD	GaAsP/Red	655	40	80	40	200	1.7	2.0	0.8	DD-12
	BD-E405RD	BD-F405RD	GaP/ Bright Red	700	90	40	15	50	2.2	2.5	1.5	
	BD-E405RE	BD-F405RE										
	BD-E402RD	BD-F402RD	GaP/ Green	568	30	80	30	150	2.2	2.5	3.5	
	BD-E403RD	BD-F403RD	GaAsP/GaP/ Yellow	585	35	80	30	150	2.1	2.5	2.5	
	BD-E404RD	BD-F404RD	GaAsP/GaP/ Hi-Eff.Red	635	45	80	30	150	2.0	2.5	3.5	
			GaAsP/GaP/ Orange									
BD-E406RD	BD-F406RD	GaAlAs/ SH Super Red	660	20	80	30	150	1.7	2.5	6.5		
BD-E40DRD	BD-F40DRD	GaAlAs/ DH Super Red	660	20	80	30	150	1.7	2.5	7.5		



Dual Digit LED Displays BD-A/C, BD-E/F Series

7-segment

DD-07 BD-$\frac{E}{F}$ 31xRD Technical drawing of BD-E/F 31xRD dual digit LED display showing top, side, and pinout views. Dimensions include 3.60(142) for segment width, 16.00(630) for digit height, and 16.70(657) for total width. Pinout shows 10 pins for D1 and 5 pins for D2.	DD-08 BD-$\frac{E}{F}$ 32xRD Technical drawing of BD-E/F 32xRD dual digit LED display showing top, side, and pinout views. Dimensions include 15.0(591) for segment width, 14.0(551) for digit height, and 20.20(795) for total width. Pinout shows 10 pins for D1 and 5 pins for D2.
DD-09 BD-$\frac{A}{C}$ 43xND Technical drawing of BD-A/C 43xND dual digit LED display showing top, side, and pinout views. Dimensions include 5.80(228) for segment width, 16.00(630) for digit height, and 22.00(866) for total width. Pinout shows 15 pins for D1 and 13 pins for D2.	DD-10 BD-$\frac{A}{C}$ 40xND Technical drawing of BD-A/C 40xND dual digit LED display showing top, side, and pinout views. Dimensions include 5.90(232) for segment width, 16.00(630) for digit height, and 20.20(795) for total width. Pinout shows 15 pins for D1 and 13 pins for D2.
DD-11 BD-$\frac{A}{C}$ 40xND-A Technical drawing of BD-A/C 40xND-A dual digit LED display showing top, side, and pinout views. Dimensions include 5.90(232) for segment width, 16.00(630) for digit height, and 20.10(791) for total width. Pinout shows 15 pins for D1 and 13 pins for D2.	DD-12 BD-$\frac{E}{F}$ 40xRD Technical drawing of BD-E/F 40xRD dual digit LED display showing top, side, and pinout views. Dimensions include 5.90(232) for segment width, 16.00(630) for digit height, and 20.20(795) for total width. Pinout shows 10 pins for D1 and 5 pins for D2.

NOTES: 1.All Dimensions are in millimeters(.010").

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

(714) 257-0800 FAX (714) 257-1310 • © 2000 American Bright Optoelectronics Corporation. Specifications subject to change without notice. **143**