



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.		
0.40" Dual-Digit	BD-E401ND-A	BD-F401ND-A	GaAsP/Red	655	40	80	40	200	1.7	2.0	0.8	DD-13
	BD-E405ND-A	BD-F405ND-A	GaP/ Bright Red	700	90	40	15	50	2.2	2.5	1.5	
	BD-E405NE-A	BD-F405NE-A										
	BD-E402ND-A	BD-F402ND-A	GaP/ Green	568	30	80	30	150	2.2	2.5	3.5	
	BD-E403ND-A	BD-F403ND-A	GaAsP/GaP/ Yellow	585	35	80	30	150	2.1	2.5	2.5	
	BD-E404ND-A	BD-F404ND-A	GaAsP/GaP/ Hi-Eff.Red	635	45	80	30	150	2.0	2.5	3.5	
			GaAsP/GaP/ Orange									
	BD-E406ND-A	BD-F406ND-A	GaAlAs/ SH Super Red	660	20	80	30	150	1.7	2.5	6.5	
BD-E40DND-A	BD-F40DND-A	GaAlAs/ DH Super Red	660	20	80	30	150	1.7	2.5	7.5		
0.43" Dual-Digit	BD-E411RD	BD-F411RD	GaAsP/Red	655	40	80	40	200	1.7	2.0	0.8	DD-14
	BD-E415RD	BD-F415RD	GaP/ Bright Red	700	90	40	15	50	2.2	2.5	1.5	
	BD-E415RE	BD-F415RE										
	BD-E412RD	BD-F412RD	GaP/ Green	568	30	80	30	150	2.2	2.5	3.5	
	BD-E413RD	BD-F413RD	GaAsP/GaP/ Yellow	585	35	80	30	150	2.1	2.5	2.5	
	BD-E414RD	BD-F414RD	GaAsP/GaP/ Hi-Eff.Red	635	45	80	30	150	2.0	2.5	3.5	
			GaAsP/GaP/ Orange									
	BD-E416RD	BD-F416RD	GaAlAs/ SH Super Red	660	20	80	30	150	1.7	2.5	6.5	
BD-E41DRD	BD-F41DRD	GaAlAs/ DH Super Red	660	20	80	30	150	1.7	2.5	7.5		
0.50" Dual-Digit	BD-A501RD	BD-C501RD	GaAsP/Red	655	40	80	40	200	1.7	2.0	0.8	DD-15
	BD-A505RD	BD-C505RD	GaP/ Bright Red	700	90	40	15	50	2.2	2.5	1.5	
	BD-A505RE	BD-C505RE										
	BD-A502RD	BD-C502RD	GaP/ Green	568	30	80	30	150	2.2	2.5	3.5	
	BD-A503RD	BD-C503RD	GaAsP/GaP/ Yellow	585	35	80	30	150	2.1	2.5	2.5	
	BD-A504RE	BD-C504RE	GaAsP/GaP/ Hi-Eff.Red	635	45	80	30	150	2.0	2.5	3.5	
			GaAsP/GaP/ Orange									
	BD-A506RD	BD-C506RD	GaAlAs/ SH Super Red	660	20	80	30	150	1.7	2.5	6.5	
	BD-A50DRD	BD-C50DRD	GaAlAs/ DH Super Red	660	20	80	30	150	1.7	2.5	7.5	
	BD-A501RD-A	BD-C501RD-A	GaAsP/Red	655	40	80	40	200	1.7	2.5	0.9	DD-16
	BD-A505RD-A	BD-C505RD-A	GaP/ Bright Red	700	90	40	15	50	2.2	2.5	1.6	
	BD-A505RE-A	BD-C505RE-A										
	BD-A502RD-A	BD-C502RD-A	GaP/ Green	568	30	80	30	150	2.2	2.5	3.8	
	BD-A503RD-A	BD-C503RD-A	GaAsP/GaP/ Yellow	585	35	80	30	150	2.1	2.5	2.8	
	BD-A504RE-A	BD-C504RE-A	GaAsP/GaP/ Hi-Eff.Red	635	45	80	30	150	2.0	2.5	3.6	
			GaAsP/GaP/ Orange									
	BD-A506RD-A	BD-C506RD-A	GaAlAs/ SH Super Red	660	20	80	30	150	1.7	2.5	6.8	
	BD-A50DRD-A	BD-C50DRD-A	GaAlAs/ DH Super Red	660	20	80	30	150	1.7	2.5	7.8	
0.50" Dual-Digit	BD-E501RD	BD-F501RD	GaAsP/Red	655	40	80	40	200	1.7	2.0	0.9	DD-17
	BD-E505RD	BD-F505RD	GaP/ Bright Red	700	90	40	15	50	2.2	2.5	1.6	
	BD-E505RE	BD-F505RE										
	BD-E502RD	BD-F502RD	GaP/ Green	568	30	80	30	150	2.2	2.5	3.8	
	BD-E503RD	BD-F503RD	GaAsP/GaP/ Yellow	585	35	80	30	150	2.1	2.5	2.8	
	BD-E504RE	BD-F504RE	GaAsP/GaP/ Hi-Eff.Red	635	45	80	30	150	2.0	2.5	3.6	
			GaAsP/GaP/ Orange									
	BD-E506RD	BD-F506RD	GaAlAs/ SH Super Red	660	20	80	30	150	1.7	2.5	6.8	
	BD-E50DRD	BD-F50DRD	GaAlAs/ DH Super Red	660	20	80	30	150	1.7	2.5	7.8	
	BD-E501RD-A	BD-F501RD-A	GaAsP/Red	655	40	80	40	200	1.7	2.0	0.9	DD-18
	BD-E505RD-A	BD-F505RD-A	GaP/ Bright Red	700	90	40	15	50	2.2	2.5	1.6	
	BD-E505RE-A	BD-F505RE-A										
BD-E502RD-A	BD-F502RD-A	GaP/ Green	568	30	80	30	150	2.2	2.5	3.8		
BD-E503RD-A	BD-F503RD-A	GaAsP/GaP/ Yellow	585	35	80	30	150	2.1	2.5	2.8		
BD-E504RD-A	BD-F504RD-A	GaAsP/GaP/ Hi-Eff.Red	635	45	80	30	150	2.0	2.5	3.6		
		GaAsP/GaP/ Orange										
BD-E506RD-A	BD-F506RD-A	GaAlAs/ SH Super Red	660	20	80	30	150	1.7	2.5	6.8		
BD-E50DRD-A	BD-F50DRD-A	GaAlAs/ DH Super Red	660	20	80	30	150	1.7	2.5	7.8		



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

7-segment

DD-13 BD-$\frac{E}{F}$ 40xND-A BD-E40xRD-A	DD-14 BD-$\frac{E}{F}$ 41xRD BD-E40xRD-B
DD-15 BD-$\frac{A}{C}$ 50xRD BD-A50xRD	DD-16 BD-$\frac{A}{C}$ 50xRD-A BD-C50xRD-A
DD-17 BD-$\frac{E}{F}$ 50xRD BD-E50xRD	DD-18 BD-$\frac{E}{F}$ 50xRD-A BD-E50xRD

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

(714) 257-0800 FAX (714) 257-1310 • © 2000 American Bright Optoelectronics Corporation. Specifications subject to change without notice. **145**