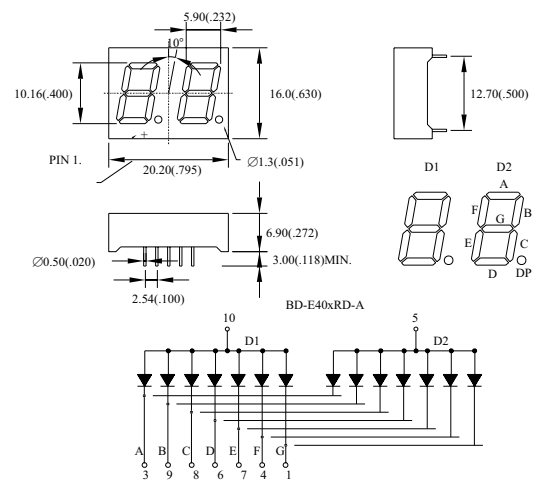
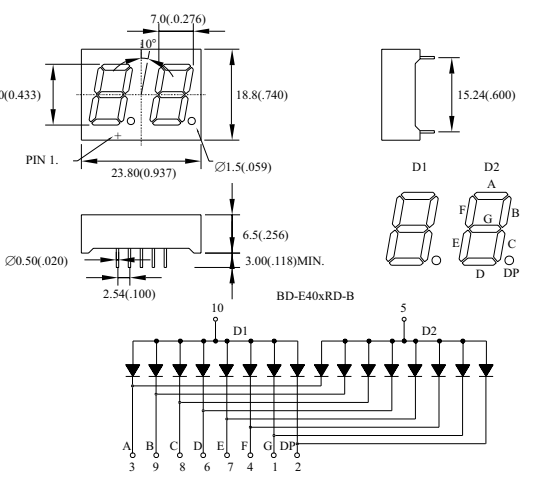
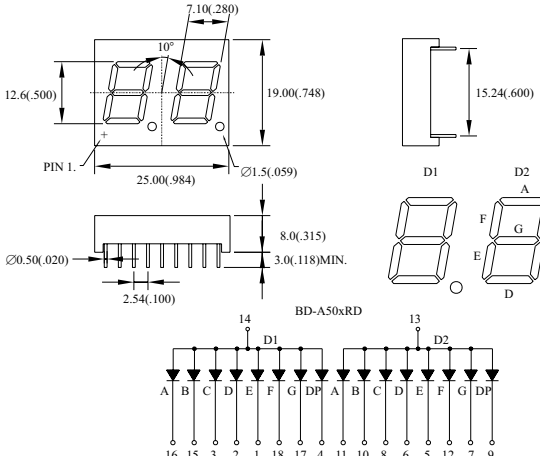
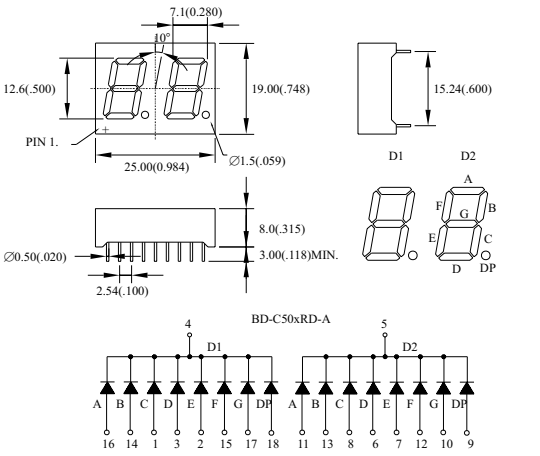
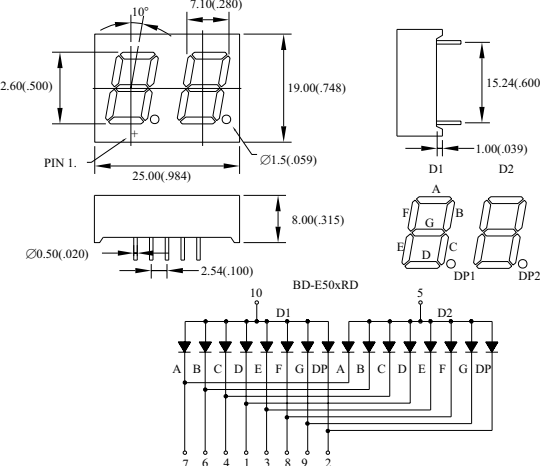
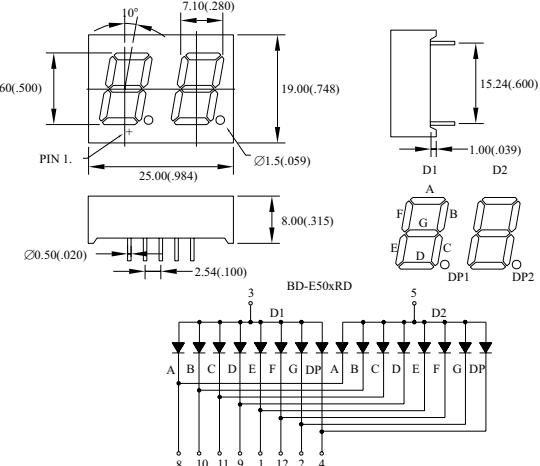




DUAL DIGIT LED DISPLAYS

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)	I _{fp} (mA)	V _f (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		
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		

DD-13 BD- $\frac{E}{F}$ 40xND-A	DD-14 BD- $\frac{E}{F}$ 41xRD
 <p>Technical drawing of DD-13: BD-E/F 40xND-A. Dimensions: 5.90(0.232), 10.16(0.400), 16.0(0.630), 20.20(0.795), 12.70(0.500), 6.90(0.272), 3.00(0.118)MIN., 2.54(0.100), 10, 5, 10, 5, 10, 5, 10, 5. Pinout diagram shows segments A, B, C, D, E, F, G, DP for digits D1 and D2.</p>	 <p>Technical drawing of DD-14: BD-E/F 41xRD. Dimensions: 7.0(0.276), 11.0(0.433), 18.8(0.740), 23.80(0.937), 15.24(0.600), 6.5(0.256), 3.00(0.118)MIN., 2.54(0.100), 10, 5, 10, 5, 10, 5, 10, 5. Pinout diagram shows segments A, B, C, D, E, F, G, DP for digits D1 and D2.</p>
DD-15 BD- $\frac{A}{C}$ 50xRD	DD-16 BD- $\frac{A}{C}$ 50xRD-A
 <p>Technical drawing of DD-15: BD-A/C 50xRD. Dimensions: 7.10(0.280), 12.6(0.500), 19.00(0.748), 25.00(0.984), 15.24(0.600), 8.0(0.315), 3.0(0.118)MIN., 2.54(0.100), 14, 13, 14, 13, 14, 13, 14, 13. Pinout diagram shows segments A, B, C, D, E, F, G, DP for digits D1 and D2.</p>	 <p>Technical drawing of DD-16: BD-A/C 50xRD-A. Dimensions: 7.1(0.280), 12.6(0.500), 19.00(0.748), 25.00(0.984), 15.24(0.600), 8.0(0.315), 3.00(0.118)MIN., 2.54(0.100), 4, 5, 4, 5, 4, 5, 4, 5. Pinout diagram shows segments A, B, C, D, E, F, G, DP for digits D1 and D2.</p>
DD-17 BD- $\frac{E}{F}$ 50xRD	DD-18 BD- $\frac{E}{F}$ 50xRD-A
 <p>Technical drawing of DD-17: BD-E/F 50xRD. Dimensions: 7.10(0.280), 12.60(0.500), 19.00(0.748), 25.00(0.984), 15.24(0.600), 8.00(0.315), 1.00(0.039), 2.54(0.100), 10, 5, 10, 5, 10, 5, 10, 5. Pinout diagram shows segments A, B, C, D, E, F, G, DP for digits D1 and D2.</p>	 <p>Technical drawing of DD-18: BD-E/F 50xRD-A. Dimensions: 7.10(0.280), 12.60(0.500), 19.00(0.748), 25.00(0.984), 15.24(0.600), 8.00(0.315), 1.00(0.039), 2.54(0.100), 3, 5, 3, 5, 3, 5, 3, 5. Pinout diagram shows segments A, B, C, D, E, F, G, DP for digits D1 and D2.</p>

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.