

# 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 P(nm)	$\Delta\lambda$ (nm)	Pd (mw)	If (mA)	Ifp (mA)	Vf (v)		Iv. Typ. Per. Seg. (mcd)	
									Typ.	Max.		
0.28" Dual-Digit	BD-E285RD	BD-F285RD	GaP/Bright Red	700	90	40	15	50	2.2	2.5	1.0	DD-01
	BD-E282RD	BD-F282RD	GaP/ Green	568	30	80	30	150	2.2	2.5	2.5	
	BD-E283RD	BD-F283RD	GaAsP/GaP/Yellow	585	35	80	30	150	2.1	2.5	2.0	
	BD-E284RD	BD-F284RD	GaAsP/GaP/Hi-Eff.Red	635	45	80	30	150	2.0	2.5	2.5	
	BD-E286RD	BD-F286RD	GaAlAs/SH Super Red	660	20	80	30	150	1.7	2.5	5.0	
	BD-E28DRD	BD-F28DRD	GaAlAs/DH Super Red	660	20	80	30	150	1.7	2.5	6.0	
0.30" Dual-Digit	BD-A305ND	BD-C305ND	GaP/Bright Red	700	90	40	15	50	2.2	2.5	1.2	DD-02
	BD-A302ND	BD-C302ND	GaP/Green	568	30	80	30	150	2.2	2.5	3.0	
	BD-A303ND	BD-C303ND	GaAsP/GaP/Yellow	585	35	80	30	150	2.1	2.5	2.0	
	BD-A304ND	BD-C304ND	GaAsP/GaP/Hi-Eff.Red	635	45	80	30	150	2.0	2.5	3.0	
	BD-A306ND	BD-C306ND	GaAlAs/SH Super Red	660	20	80	30	150	1.7	2.5	6.0	
	BD-A30DND	BD-C30DND	GaAlAs/DH Super Red	660	20	80	30	150	1.7	2.5	7.0	
0.30" Dual-Digit	BD-E305RD	BD-F305RD	GaP/Bright Red	700	90	40	15	50	2.2	2.5	1.2	DD-03
	BD-E302RD	BD-F302RD	GaP/Green	568	30	80	30	150	2.2	2.5	3.0	
	BD-E303RD	BD-F303RD	GaAsP/GaP/Yellow	585	35	80	30	150	2.1	2.5	2.0	
	BD-E304RD	BD-F304RD	GaAsP/GaP/Hi-Eff.Red	635	45	80	30	150	2.0	2.5	3.0	
	BD-E306RD	BD-F306RD	GaAlAs/SH Super Red	660	20	80	30	150	1.7	2.5	6.0	
	BD-E30DRD	BD-F30DRD	GaAlAs/DH Super Red	660	20	80	30	150	1.7	2.5	7.0	
0.36" Dual-Digit	BD-E325RD	BD-F325RD	GaP/Bright Red	700	90	40	15	50	2.2	2.5	1.2	DD-04
	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	
	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	
0.40" Dual-Digit	BD-A405ND	BD-C405ND	GaP/Bright Red	700	90	40	15	50	2.2	2.5	1.5	DD-05
	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	
	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-E405RD	BD-F405RD	GaP/Bright Red	700	90	40	15	50	2.2	2.5	1.5	DD-06
	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	
	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	

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DD-01 BD- <sup>E</sup> <sub>F</sub> 28xRD	DD-02 BD- <sup>A</sup> <sub>C</sub> 30xND
<p>BD-E28xRD</p>	<p>BD-A30xND</p>
DD-03 BD- <sup>E</sup> <sub>F</sub> 30xRD	DD-04 BD- <sup>E</sup> <sub>F</sub> 32xRD
<p>BD-E30xRD</p>	<p>BD-E32xRD</p>
DD-05 BD- <sup>A</sup> <sub>C</sub> 40xND	DD-06 BD- <sup>E</sup> <sub>F</sub> 40xRD
<p>BD-A40xND</p>	<p>BD-E40xRD</p>

Notes: 1. All dimensions are in millimeters (inches).  
2. Tolerance is  $\pm 0.25\text{mm}$  (.010")

3. Specifications are subject to change without notice.  
4. NP: No Pin.  
5. NC: No Connect

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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 P(nm)	$\Delta\lambda$ (nm)	Pd (mw)	If (mA)	Ifp (mA)	Vf (v)		Iv. Typ. Per. Seg. (mcd)		
									Typ.	Max.			
0.50" Dual-Digit	BD-A505RD	BD-C505RD	GaP/Bright Red	700	90	40	15	50	2.2	2.5	1.5	DD-07	
	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		
	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-E505RD	BD-F505RD	GaP/Bright Red	700	90	40	15	50	2.2	2.5	1.6	DD-08	
	BD-E505RE	BD-F505RE	GaP/Bright Red	700	90	40	15	50	2.2	2.5	1.6		
	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		
	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		
	0.56" Dual-Digit	BD-A515RD	BD-C515RD	GaP/Bright Red	700	90	40	15	50	2.2	2.5	1.5	DD-09
BD-A512RD		BD-C512RD	GaP/ Green	568	30	80	30	150	2.2	2.5	3.5		
BD-A513RD		BD-C513RD	GaAsP/GaP/Yellow	585	35	80	30	150	2.1	2.5	2.5		
BD-A514RE		BD-C514RE	GaAsP/GaP/Hi-Eff.Red	635	45	80	30	150	2.0	2.5	3.5		
BD-A516RD		BD-C516RD	GaAlAs/SH Super Red	660	20	80	30	150	1.7	2.5	6.5		
BD-A51DRD		BD-C51DRD	GaAlAs/DH Super Red	660	20	80	30	150	1.7	2.5	7.5		
BD-E545RD		BD-F545RD	GaP/Bright Red	700	90	40	15	50	2.2	2.5	1.6	DD-10	
BD-E542RD		BD-F542RD	GaP/Green	568	30	80	30	150	2.2	2.5	3.8		
BD-E543RD		BD-F543RD	GaAsP/GaP/Yellow	585	35	80	30	150	2.1	2.5	2.8		
BD-E544RE		BD-F544RE	GaAsP/GaP/Hi-Eff.Red	635	45	80	30	150	2.0	2.5	3.6		
BD-E546RD		BD-F546RD	GaAlAs/SH Super Red	660	20	80	30	150	1.7	2.5	6.8		
BD-E54DRD		BD-F54DRD	GaAlAs/DH Super Red	660	20	80	30	150	1.7	2.5	7.8		
0.80" Dual-Digit		BD-A815RD	BD-C815RD	GaP/Bright Red	700	90	40	15	50	2.2	2.5	1.6	DD-11
		BD-A812RD	BD-C812RD	GaP/Green	568	30	80	30	150	2.2	2.5	4.0	
	BD-A813RD	BD-C813RD	GaAsP/GaP/Yellow	585	35	80	30	150	2.1	2.5	3.0		
	BD-A814RD	BD-C814RD	GaAsP/GaP/Hi-Eff.Red	635	45	80	30	150	2.0	2.5	4.0		
	BD-A816RD	BD-C816RD	GaAlAs/SH Super Red	660	20	80	30	150	1.7	2.5	7.0		
	BD-A81FRD	BD-C81FRD	GaAlAs/DDH Super Red	660	20	80	30	150	2.0	2.5	12.0		
	BD-E815RD	BD-F815RD	GaP/Bright Red	700	90	40	15	50	2.2	2.5	1.6	DD-12	
	BD-E812RD	BD-F812RD	GaP/Green	568	30	80	30	150	2.2	2.5	4.0		
	BD-E813RD	BD-F813RD	GaAsP/GaP/Yellow	585	35	80	30	150	2.1	2.5	3.0		
	BD-E814RD	BD-F814RD	GaAsP/GaP/Hi-Eff.Red	635	45	80	30	150	2.0	2.5	4.0		
	BD-E816RD	BD-F816RD	GaAlAs/SH Super Red	660	20	80	30	150	1.7	2.5	7.0		
	BD-E81FRD	BD-F81FRD	GaAlAs/DDH Super Red	660	20	80	30	150	2.0	2.5	12.0		

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DD-07 <b>BD-C 50xRD</b>	DD-08 <b>BD-F 50xRD</b>
DD-09 <b>BD-C 51xRD</b>	DD-10 <b>BD-F 54xRD</b>
DD-11 <b>BD-C 81xRD</b>	DD-12 <b>BD-F 81xRD</b>

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