



Single Digit LED Displays BF-A/C, BF-U, BS-A/C Series

7-segment, ± 1 overflow

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.		
0.36" Overflow Single-Digit	BF-A321RD	BF-C321RD	GaAsP/Red	655	40	80	40	200	1.7	2.0	0.6	SD-13
	BF-A325RD	BF-C325RD	GaP/ Bright Red	700	90	40	15	50	2.2	2.5	1.2	
	BF-A325RE	BF-C325RE										
	BF-A322RD	BF-C322RD	GaP/ Green	568	30	80	30	150	2.2	2.5	3.0	
	BF-A323RD	BF-C323RD	GaAsP/GaP/ Yellow	585	35	80	30	150	2.1	2.5	2.0	
	BF-A324RD	BF-C324RD	GaAsP/GaP/ Hi-Eff.Red	635	45	80	30	150	2.0	2.5	3.0	
			GaAsP/GaP/ Orange									
	BF-A326RD	BF-C326RD	GaAlAs/ SH Super Red	660	20	80	30	150	1.7	2.5	6.0	
BF-A32DRD	BF-C32DRD	GaAlAs/ DH Super Red	660	20	80	30	150	1.7	2.5	7.0		
0.39" Single-Digit	BS-A341RD	BS-C341RD	GaAsP/Red	655	40	80	40	200	1.7	2.0	0.6	SD-14
	BS-A345RD	BS-C345RD	GaP/ Bright Red	700	90	40	15	50	2.2	2.5	1.2	
	BS-A345RE	BS-C345RE										
	BS-A342RD	BS-C342RD	GaP/ Green	568	30	80	30	150	2.2	2.5	3.0	
	BS-A343RD	BS-C343RD	GaAsP/GaP/ Yellow	585	35	80	30	150	2.1	2.5	2.0	
	BS-A344RD	BS-C344RD	GaAsP/GaP/ Hi-Eff.Red	635	45	80	30	150	2.0	2.5	3.0	
			GaAsP/GaP/ Orange									
	BS-A346RD	BS-C346RD	GaAlAs/ SH Super Red	660	20	80	30	150	1.7	2.5	6.0	
	BS-A34DRD	BS-C34DRD	GaAlAs/ DH Super Red	660	20	80	30	150	1.7	2.5	7.0	
	Alpha-Numeric Displays	BS-A341RD-A	BS-C341RD-A	GaAsP/Red	655	40	80	40	200	1.7	2.0	
BS-A345RD-A		BS-C345RD-A	GaP/ Bright Red	700	90	40	15	50	2.2	2.5	1.2	
BS-A345RE-A		BS-C345RE-A										
BS-A342RD-A		BS-C342RD-A	GaP/ Green	568	30	80	30	150	2.2	2.5	3.0	
BS-A343RD-A		BS-C343RD-A	GaAsP/GaP/ Yellow	585	35	80	30	150	2.1	2.5	2.0	
BS-A344RD-A		BS-C344RD-A	GaAsP/GaP/ Hi-Eff.Red	635	45	80	30	150	2.0	2.5	3.0	
			GaAsP/GaP/ Orange									
BS-A346RD-A		BS-C346RD-A	GaAlAs/ SH Super Red	660	20	80	30	150	1.7	2.5	6.0	
BS-A34DRD-A	BS-C34DRD-A	GaAlAs/ DH Super Red	660	20	80	30	150	1.7	2.5	7.0		
0.39" Alpha-Numeric Displays	BS-A311RD-B	BS-C311RD-B	GaAsP/Red	655	40	80	40	200	1.7	2.0	0.6	SD-16
	BS-A315RD-B	BS-C315RD-B	GaP/ Bright Red	700	90	40	15	50	2.2	2.5	1.2	
	BS-A315RE-B	BS-C315RE-B										
	BS-A312RD-B	BS-C312RD-B	GaP/ Green	568	30	80	30	150	2.2	2.5	2.8	
	BS-A313RD-B	BS-C313RD-B	GaAsP/GaP/ Yellow	585	35	80	30	150	2.1	2.5	2.2	
	BS-A314RD-B	BS-C314RD-B	GaAsP/GaP/ Hi-Eff.Red	635	45	80	30	150	2.0	2.5	2.8	
			GaAsP/GaP/ Orange									
	BS-A316RD-B	BS-C316RD-B	GaAlAs/ SH Super Red	660	20	80	30	150	1.7	2.5	5.0	
BS-A31DRD-B	BS-C31DRD-B	GaAlAs/ DH Super Red	660	20	80	30	150	1.7	2.5	10.0		
0.40" Single-Digit	BS-A401RD	BS-C401RD	GaAsP/Red	655	40	80	40	200	1.7	2.0	0.6	SD-17
	BS-A405RD	BS-C405RD	GaP/ Bright Red	700	90	40	15	50	2.2	2.5	1.2	
	BS-A405RE	BS-C405RE										
	BS-A402RD	BS-C402RD	GaP/ Green	568	30	80	30	150	2.2	2.5	3.0	
	BS-A403RD	BS-C403RD	GaAsP/GaP/ Yellow	585	35	80	30	150	2.1	2.5	2.0	
	BS-A404RD	BS-C404RD	GaAsP/GaP/ Hi-Eff.Red	635	45	80	30	150	2.0	2.5	3.0	
			GaAsP/GaP/ Orange									
	BS-A406RD	BS-C406RD	GaAlAs/ SH Super Red	660	20	80	30	150	1.7	2.5	6.0	
BS-A40DRD	BS-C40DRD	GaAlAs/ DH Super Red	660	20	80	30	150	1.7	2.5	7.0		
0.40" Overflow Single-Digit	BF-U401RD		GaAsP/Red	655	40	80	40	200	1.7	2.0	0.6	SD-18
	BF-U405RD		GaP/ Bright Red	700	90	40	15	50	2.2	2.5	1.2	
	BF-U405RE											
	BF-U402RD		GaP/ Green	568	30	80	30	150	2.2	2.5	3.0	
	BF-U403RD		GaAsP/GaP/ Yellow	585	35	80	30	150	2.1	2.5	2.0	
	BF-U404RD		GaAsP/GaP/ Hi-Eff.Red	635	45	80	30	150	2.0	2.5	3.0	
			GaAsP/GaP/ Orange									
	BF-U406RD		GaAlAs/ SH Super Red	660	20	80	30	150	1.7	2.5	6.0	
BF-U40DRD		GaAlAs/ DH Super Red	660	20	80	30	150	1.7	2.5	7.0		



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7-segment, ± 1 overflow

SD-13 BF-$\frac{A}{C}$ 32xRD BF-A32xRD 1.6 NC: 4,5,10. BF-C32xRD 1.6 NC: 4,5,10.	SD-14 BS-$\frac{A}{C}$ 34xRD BS-A34xRD 3.8 BS-C34xRD 3.8
SD-15 BS-$\frac{A}{C}$ 34xRD-A BS-A34xRD-A 1.6 BS-C34xRD-A 1.6	SD-16 BS-$\frac{A}{C}$ 34xRD-B BS-A34xRD-B 4.13, 17
SD-17 BS-$\frac{A}{C}$ 40xRD BS-A40xxx 3.14 BS-C40xxx 4.12	SD-18 BF-U40xRD NP: 2,9.

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.

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