



Single Digit LED Displays BS-A/C, BF-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.		
1.50" Single-Digit	BS-AB31RD	BS-CB31RD	GaAsP/Red	655	40	160	40	200	3.4	4.0	2.5	SD-49
	BS-AB35RD	BS-CB35RD	GaP/ Bright Red	700	90	80	15	50	4.4	5.0	3.5	
	BS-AB35RE	BS-CB35RE										
	BS-AB32RD	BS-CB32RD	GaP/ Green	568	30	160	30	150	4.4	5.0	5.0	
	BS-AB33RD	BS-CB33RD	GaAsP/GaP/ Yellow	585	35	160	30	150	4.2	5.0	4.0	
	BS-AB34RD	BS-CB34RD	GaAsP/GaP/ Hi-Eff.Red	635	45	160	30	150	4.0	5.0	5.0	
			GaAsP/GaP/ Orange									
	BS-AB36RD	BS-CB36RD	GaAlAs/ SH Super Red	660	20	160	30	150	3.4	5.0	10.0	
BS-AB3FRD	BS-CB3FRD	GaAlAs/ DDH Super Red	660	20	160	30	150	4.0	5.0	15.0		
1.50" Overflow Single-Digit	BF-AB31RD	BF-CB31RD	GaAsP/Red	655	40	160	40	200	3.4	4.0	2.5	SD-50
	BF-AB35RD	BF-CB35RD	GaP/ Bright Red	700	90	80	15	50	4.4	5.0	3.5	
	BF-AB35RE	BF-CB35RE										
	BF-AB32RD	BF-CB32RD	GaP/ Green	568	30	160	30	150	4.4	5.0	5.0	
	BF-AB33RD	FS-CB33RD	GaAsP/GaP/ Yellow	585	35	160	30	150	4.2	5.0	4.0	
	BF-AB34RD	BF-CB34RD	GaAsP/GaP/ Hi-Eff.Red	635	45	160	30	150	4.0	5.0	5.0	
			GaAsP/GaP/ Orange									
	BF-AB36RD	BF-CB36RD	GaAlAs/ SH Super Red	660	20	160	30	150	3.4	5.0	10.0	
BF-AB3FRD	BF-CB3FRD	GaAlAs/ DDH Super Red	660	20	160	30	150	4.0	5.0	15.0		
1.50" Single-Digit	BS-AB41RD	BS-CB41RD	GaAsP/Red	655	40	160	40	200	3.4	4.0	2.5	SD-51
	BS-AB45RD	BS-CB45RD	GaP/ Bright Red	700	90	80	15	50	4.4	5.0	3.5	
	BS-AB45RE	BS-CB45RE										
	BS-AB42RD	BS-CB42RD	GaP/ Green	568	30	160	30	150	4.4	5.0	5.0	
	BS-AB43RD	BS-CB43RD	GaAsP/GaP/ Yellow	585	35	160	30	150	4.2	5.0	4.0	
	BS-AB44RD	BS-CB44RD	GaAsP/GaP/ Hi-Eff.Red	635	45	160	30	150	4.0	5.0	5.0	
			GaAsP/GaP/ Orange									
	BS-AB46RD	BS-CB46RD	GaAlAs/ SH Super Red	660	20	160	30	150	3.4	5.0	10.0	
	BS-AB4FRD	BS-CB4FRD	GaAlAs/ DDH Super Red	660	20	160	30	150	4.0	5.0	15.0	
	1.50" Single-Digit	BS-AB51RD	BS-CB51RD	GaAsP/Red	655	40	160	40	200	3.4	4.0	
BS-AB55RD		BS-CB55RD	GaP/ Bright Red	700	90	80	15	50	4.4	5.0	3.5	
BS-AB55RE		BS-CB55RE										
BS-AB52RD		BS-CB52RD	GaP/ Green	568	30	160	30	150	4.4	5.0	5.0	
BS-AB53RD		BS-CB53RD	GaAsP/GaP/ Yellow	585	35	160	30	150	4.2	5.0	4.0	
BS-AB54RD		BS-CB54RD	GaAsP/GaP/ Hi-Eff.Red	635	45	160	30	150	4.0	5.0	5.0	
			GaAsP/GaP/ Orange									
BS-AB56RD		BS-CB56RD	GaAlAs/ SH Super Red	660	20	160	30	150	3.4	5.0	10.0	
BS-AB5FRD		BS-CB5FRD	GaAlAs/ DDH Super Red	660	20	160	30	150	4.0	5.0	15.0	
1.80" Single-Digit	BS-AB01RD	BS-CB01RD	GaAsP/Red	655	40	240	40	200	5.1	6.0	4.5	SD-53
	BS-AB05RD	BS-CB05RD	GaP/ Bright Red	700	90	120	15	50	6.6	7.5	5.5	
	BS-AB05RE	BS-CB05RE										
	BS-AB02RD	BS-CB02RD	GaP/ Green	568	30	240	30	150	6.6	7.5	7.0	
	BS-AB03RD	BS-CB03RD	GaAsP/GaP/ Yellow	585	35	240	30	150	6.3	7.5	6.0	
	BS-AB04RD	BS-CB04RD	GaAsP/GaP/ Hi-Eff.Red	635	45	240	30	150	6.0	7.5	7.0	
			GaAsP/GaP/ Orange									
	BS-AB06RD	BS-CB06RD	GaAlAs/ SH Super Red	660	20	240	30	150	5.1	7.5	12.0	
BS-AB0FRD	BS-CB0FRD	GaAlAs/ DDH Super Red	660	20	240	30	150	6.0	7.5	17.0		
1.80" Overflow Single-Digit	BF-AB01RD	BF-CB01RD	GaAsP/Red	655	40	240	40	200	5.1	6.0	4.5	SD-54
	BF-AB05RD	BF-CB05RD	GaP/ Bright Red	700	90	120	15	50	6.6	7.5	5.5	
	BF-AB05RE	BF-CB05RE										
	BF-AB02RD	BF-CB02RD	GaP/ Green	568	30	240	30	150	6.6	7.5	7.0	
	BF-AB03RD	BF-CB03RD	GaAsP/GaP/ Yellow	585	35	240	30	150	6.3	7.5	6.0	
	BF-AB04RD	BF-CB04RD	GaAsP/GaP/ Hi-Eff.Red	635	45	240	30	150	6.0	7.5	7.0	
			GaAsP/GaP/ Orange									
	BF-AB06RD	BF-CB06RD	GaAlAs/ SH Super Red	660	20	240	30	150	5.1	7.5	12.0	
BF-AB0FRD	BF-CB0FRD	GaAlAs/ DDH Super Red	660	20	240	30	150	6.0	7.5	17.0		



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

7-segment, ± 1 overflow

SD-49 BS-$\overset{A}{\underset{C}{B}}3 \times RD$ SD-50 BF-$\overset{A}{\underset{C}{B}}3 \times RD$	
SD-51 BS-$\overset{A}{\underset{C}{B}}4 \times RD$ SD-52 BS-$\overset{A}{\underset{C}{B}}5 \times RD$	
SD-53 BS-$\overset{A}{\underset{C}{B}}0 \times RD$ SD-54 BF-$\overset{A}{\underset{C}{B}}0 \times RD$	

NOTES: 1.All Dimensions are in millimeters(inches).

3.Specifications are subject to change without notice.

2.Tolerance is $\pm 0.25\text{mm}(.010^{\circ})$.

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. **127**