



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

16-segment, 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.		
0.50" Alpha-Numeric Displays	BS-A561RD	BS-C561RD	GaAsP/Red	655	40	80	40	200	1.7	2.0	0.7	SD-25
	BS-A565RD	BS-C565RD	GaP/ Bright Red	700	90	40	15	50	2.2	2.5	1.5	
	BS-A565RE	BS-C565RE										
	BS-A562RD	BS-C562RD	GaP/ Green	568	30	80	30	150	2.2	2.5	3.5	
	BS-A563RD	BS-C563RD	GaAsP/GaP/ Yellow	585	35	80	30	150	2.1	2.5	2.5	
	BS-A564RD	BS-C564RD	GaAsP/GaP/ Hi-Eff.Red	635	45	80	30	150	2.0	2.5	3.5	
		GaAsP/GaP/ Orange										
	BS-A566RD	BS-C566RD	GaAlAs/ SH Super Red	660	20	80	30	150	1.7	2.5	6.5	
	BS-A56DRD	BS-C56DRD	GaAlAs/ DH Super Red	660	20	80	30	150	1.7	2.5	7.5	
	BS-A561RD-A	BS-C561RD-A	GaAsP/Red	655	40	80	40	200	1.7	2.0	0.7	SD-26
	BS-A565RD-A	BS-C565RD-A	GaP/ Bright Red	700	90	40	15	50	2.2	2.5	1.5	
	BS-A565RE-A	BS-C565RE-A										
	BS-A562RD-A	BS-C562RD-A	GaP/ Green	568	30	80	30	150	2.2	2.5	3.5	
	BS-A563RD-A	BS-C563RD-A	GaAsP/GaP/ Yellow	585	35	80	30	150	2.1	2.5	2.5	
	BS-A564RD-A	BS-C564RD-A	GaAsP/GaP/ Hi-Eff.Red	635	45	80	30	150	2.0	2.5	3.5	
		GaAsP/GaP/ Orange										
	BS-A566RD-A	BS-C566RD-A	GaAlAs/ SH Super Red	660	20	60	30	150	1.7	2.5	6.5	
	BS-A56DRD-A	BS-C56DRD-A	GaAlAs/ DH Super Red	660	20	80	30	150	1.7	2.5	7.5	
0.52" Single-Digit	BS-A531RD	BS-C531RD	GaAsP/Red	655	40	80	40	200	1.7	2.0	1.0	SD-27
	BS-A535RD	BS-C535RD	GaP/ Bright Red	700	90	40	15	50	2.2	2.5	1.5	
	BS-A535RE	BS-C535RE										
	BS-A532RD	BS-C532RD	GaP/ Green	568	30	80	30	150	2.2	2.5	3.0	
	BS-A533RD	BS-C533RD	GaAsP/GaP/ Yellow	585	35	80	30	150	2.1	2.5	2.0	
	BS-A534RD	BS-C534RD	GaAsP/GaP/ Hi-Eff.Red	635	45	80	30	150	2.0	2.5	3.0	
		GaAsP/GaP/ Orange										
	BS-A536RD	BS-C536RD	GaAlAs/ SH Super Red	660	20	80	30	150	1.7	2.5	7.0	
	BS-A53DRD	BS-C53DRD	GaAlAs/ DH Super Red	660	20	80	30	150	1.7	2.5	8.0	
	BS-A541RD	BS-C541RD	GaAsP/Red	655	40	80	40	200	1.7	2.0	1.0	SD-28
	BS-A545RD	BS-C545RD	GaP/ Bright Red	700	90	40	15	50	2.2	2.5	1.5	
	BS-A545RE	BS-C545RE										
	BS-A542RD	BS-C542RD	GaP/ Green	568	30	80	30	150	2.2	2.5	3.0	
	BS-A543RD	BS-C543RD	GaAsP/GaP/ Yellow	585	35	80	30	150	2.1	2.5	2.0	
	BS-A544RD	BS-C544RD	GaAsP/GaP/ Hi-Eff.Red	635	45	80	30	150	2.0	2.5	3.0	
		GaAsP/GaP/ Orange										
	BS-A546RD	BS-C546RD	GaAlAs/ SH Super Red	660	20	80	30	150	1.7	2.5	7.0	
	BS-A54DRD	BS-C54DRD	GaAlAs/ DH Super Red	660	20	80	30	150	1.7	2.5	8.0	
0.56" Single-Digit	BS-A511RD	BS-C511RD	GaAsP/Red	655	40	80	40	200	1.7	2.0	1.0	SD-29
	BS-A515RD	BS-C515RD	GaP/ Bright Red	700	90	40	15	50	2.2	2.5	1.5	
	BS-A515RE	BS-C515RE										
	BS-A512RD	BS-C512RD	GaP/ Green	568	30	80	30	150	2.2	2.5	3.0	
	BS-A513RD	BS-C513RD	GaAsP/GaP/ Yellow	585	35	80	30	150	2.1	2.5	2.0	
	BS-A514RD	BS-C514RD	GaAsP/GaP/ Hi-Eff.Red	635	45	80	30	150	2.0	2.5	3.0	
		GaAsP/GaP/ Orange										
	BS-A516RD	BS-C516RD	GaAlAs/ SH Super Red	660	20	80	30	150	1.7	2.5	7.0	
BS-A51DRD	BS-C51DRD	GaAlAs/ DH Super Red	660	20	80	30	150	1.7	2.5	8.0		
0.56" Overflow Single-Digit	BF-A511RD	BF-C511RD	GaAsP/Red	655	40	80	40	200	1.7	2.0	1.0	SD-30
	BF-A515RD	BF-C515RD	GaP/ Bright Red	700	90	40	15	50	2.2	2.5	1.5	
	BF-A515RE	BF-C515RE										
	BF-A512RD	BF-C512RD	GaP/ Green	568	30	80	30	150	2.2	2.5	3.0	
	BF-A513RD	BF-C513RD	GaAsP/GaP/ Yellow	585	35	80	30	150	2.1	2.5	2.0	
	BF-A514RD	BF-C514RD	GaAsP/GaP/ Hi-Eff.Red	635	45	80	30	150	2.0	2.5	3.0	
		GaAsP/GaP/ Orange										
	BF-A516RD	BF-C516RD	GaAlAs/ SH Super Red	660	20	80	30	150	1.7	2.5	7.0	
BF-A51DRD	BF-C51DRD	GaAlAs/ DH Super Red	660	20	80	30	150	1.7	2.5	8.0		



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16-segment, 7-segment, ± 1 overflow

SD-25 BS-A₅₆xRD	SD-26 BS-A₅₆xRD-A
SD-25 BS-A₅₆xRD dimensions: 8.25(.325) top width, 12.70(.500) left height, 25.00(.984) right height, 16.00(.630) bottom width, 2.54x8=20.32(.800) pin pitch, 1.6(.062) pin diameter, 9.50(.374) pin height, 3.00(.118) MIN. pin spacing, 12.40(.488) pin width, 20.50(.820) pin diameter. Pinout: A1, A2, B, C, D1, D2, E, F, G1, G2, J, K, L, M, N, P, DP. Pin numbers: 2, 1, 16, 13, 8, 9, 6, 5, 14, 15, 4, 3, 17, 12, 11, 7, 10.	SD-26 BS-A₅₆xRD-A dimensions: 8.25(.325) top width, 12.70(.500) left height, 25.00(.984) right height, 16.00(.630) bottom width, 2.54x8=20.32(.800) pin pitch, 1.6(.062) pin diameter, 9.50(.374) pin height, 3.00(.118) MIN. pin spacing, 12.40(.488) pin width, 20.50(.820) pin diameter. Pinout: A1, A2, B, C, D1, D2, E, F, G1, G2, J, K, L, M, N, P, DP. Pin numbers: 1, 18, 16, 13, 9, 10, 8, 4, 5, 15, 3, 2, 17, 14, 6, 7, 12.
SD-27 BS-A₅₃xRD	SD-28 BS-A₅₄xRD
SD-27 BS-A₅₃xRD dimensions: 7.60(.299) top width, 13.20(.520) left height, 17.50(.689) right height, 12.40(.488) bottom width, 1.5(.059) pin diameter, 1.0(.039) pin height, 7.00(.276) pin height, 3.00(.118) MIN. pin spacing, 2.54(.100) pin width, 20.50(.820) pin diameter. Pinout: A, B, C, D, E, F, G, DP. Pin numbers: 7, 6, 4, 2, 1, 9, 10, 5.	SD-28 BS-A₅₄xRD dimensions: 7.60(.299) top width, 13.20(.520) left height, 17.50(.689) right height, 12.40(.488) bottom width, 1.5(.059) pin diameter, 1.0(.039) pin height, 7.00(.276) pin height, 3.00(.118) MIN. pin spacing, 2.54(.100) pin width, 20.50(.820) pin diameter. Pinout: A, B, C, D, E, F, G, DP. Pin numbers: 8, 7, 3, 2, 1, 10, 9, 4.
SD-29 BS-A₅₁xRD	SD-30 BF-A₅₁xRD
SD-29 BS-A₅₁xRD dimensions: 8.10(.319) top width, 14.20(.560) left height, 19.00(.748) right height, 12.50(.492) bottom width, 1.6(.063) pin diameter, 1.0(.039) pin height, 8.00(.314) pin height, 3.00(.118) MIN. pin spacing, 2.54(.100) pin width, 20.50(.820) pin diameter. Pinout: A, B, C, D, E, F, G, DP. Pin numbers: 7, 6, 4, 2, 1, 9, 10, 5.	SD-30 BF-A₅₁xRD dimensions: 8.10(.319) top width, 14.20(.560) left height, 19.00(.748) right height, 12.50(.492) bottom width, 1.6(.063) pin diameter, 1.0(.039) pin height, 8.00(.314) pin height, 3.00(.118) MIN. pin spacing, 2.54(.100) pin width, 20.50(.820) pin diameter. Pinout: B, C, H, J, DP. Pin numbers: 6, 4, 9, 1, 5. NC: 2, 7, 10.

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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