



Single Digit LED Displays BS-A/C Series

16-segment, 7-segment

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.		
Alpha-Numeric Displays	BS-A831RD	BS-C831RD	GaAsP/Red	655	40	80	40	200	1.7	2.0	1.3	SD-37
	BS-A835RD	BS-C835RD	GaP/ Bright Red	700	90	40	15	50	2.2	2.5	1.6	
	BS-A835RE	BS-C835RE										
	BS-A832RD	BS-C832RD	GaP/ Green	568	30	80	30	150	2.2	2.5	3.2	
	BS-A833RD	BS-C833RD	GaAsP/GaP/ Yellow	585	35	80	30	150	2.1	2.5	2.2	
	BS-A834RD	BS-C834RD	GaAsP/GaP/ Hi-Eff.Red	635	45	80	30	150	2.0	2.5	3.2	
			GaAsP/GaP/ Orange									
	BS-A836RD	BS-C836RD	GaAlAs/ SH Super Red	660	20	80	30	150	1.7	2.5	7.5	
BS-A83DRD	BS-C83DRD	GaAlAs/ DH Super Red	660	20	80	30	150	1.7	2.5	8.5		
0.80" Single-Digit	BS-A841RD	BS-C841RD	GaAsP/Red	655	40	80	40	200	1.7	2.0	1.3	SD-38
	BS-A845RD	BS-C845RD	GaP/ Bright Red	700	90	40	15	50	2.2	2.5	1.6	
	BS-A845RE	BS-C845RE										
	BS-A842RD	BS-C842RD	GaP/ Green	568	30	80	30	150	2.2	2.5	3.2	
	BS-A843RD	BS-C843RD	GaAsP/GaP/ Yellow	585	35	80	30	150	2.1	2.5	2.2	
	BS-A844RD	BS-C844RD	GaAsP/GaP/ Hi-Eff.Red	635	45	80	30	150	2.0	2.5	3.2	
			GaAsP/GaP/ Orange									
	BS-A846RD	BS-C846RD	GaAlAs/ SH Super Red	660	20	80	30	150	1.7	2.5	7.5	
BS-A84FRD	BS-C84FRD	GaAlAs/ DDH Super Red	660	20	80	30	150	2.0	2.5	12.5		
0.80" Single-Digit	BS-A851RD	BS-C851RD	GaAsP/Red	655	40	80	40	200	1.7	2.0	1.3	SD-39
	BS-A855RD	BS-C855RD	GaP/ Bright Red	700	90	40	15	50	2.2	2.5	1.6	
	BS-A855RE	BS-C855RE										
	BS-A852RD	BS-C852RD	GaP/ Green	568	30	80	30	150	2.2	2.5	3.2	
	BS-A853RD	BS-C853RD	GaAsP/GaP/ Yellow	585	35	80	30	150	2.1	2.5	2.2	
	BS-A854RD	BS-C854RD	GaAsP/GaP/ Hi-Eff.Red	635	45	80	30	150	2.0	2.5	3.2	
			GaAsP/GaP/ Orange									
	BS-A856RD	BS-C856RD	GaAlAs/ SH Super Red	660	20	80	30	150	1.7	2.5	7.5	
BS-A85FRD	BS-C85FRD	GaAlAs/ DDH Super Red	660	20	80	30	150	2.0	2.5	12.5		
0.80" Single-Digit	BS-A861RD	BS-C861RD	GaAsP/Red	655	40	80	40	200	1.7	2.0	1.3	SD-40
	BS-A865RD	BS-C865RD	GaP/ Bright Red	700	90	40	15	50	2.2	2.5	1.6	
	BS-A865RE	BS-C865RE										
	BS-A862RD	BS-C862RD	GaP/ Green	568	30	80	30	150	2.2	2.5	3.2	
	BS-A863RD	BS-C863RD	GaAsP/GaP/ Yellow	585	35	80	30	150	2.1	2.5	2.2	
	BS-A864RD	BS-C864RD	GaAsP/GaP/ Hi-Eff.Red	635	45	80	30	150	2.0	2.5	3.2	
			GaAsP/GaP/ Orange									
	BS-A866RD	BS-C866RD	GaAlAs/ SH Super Red	660	20	80	30	150	1.7	2.5	7.5	
BS-A86FRD	BS-C86FRD	GaAlAs/ DDH Super Red	660	20	80	30	150	2.0	2.5	12.5		
1.00" Single-Digit	BS-AA01RD	BS-CA01RD	GaAsP/Red	655	40	160	40	200	3.4	4.0	2.5	SD-41
	BS-AA05RD	BS-CA05RD	GaP/ Bright Red	700	90	80	15	50	4.4	5.0	3.5	
	BS-AA05RE	BS-CA05RE										
	BS-AA02RD	BS-CA02RD	GaP/ Green	568	30	160	30	150	4.4	5.0	5.0	
	BS-AA03RD	BS-CA03RD	GaAsP/GaP/ Yellow	585	35	160	30	150	4.2	5.0	4.0	
	BS-AA04RD	BS-CA04RD	GaAsP/GaP/ Hi-Eff.Red	635	45	160	30	150	4.0	5.0	5.0	
			GaAsP/GaP/ Orange									
	BS-AA06RD	BS-CA06RD	GaAlAs/ SH Super Red	660	20	160	30	150	3.4	5.0	10.0	
BS-AA0FRD	BS-CA0FRD	GaAlAs/ DDH Super Red	660	20	160	30	150	4.0	5.0	15.0		
1.00" Single-Digit	BS-AA11RD	BS-CA11RD	GaAsP/Red	655	40	160	40	200	3.4	4.0	2.5	SD-42
	BS-AA15RD	BS-CA15RD	GaP/ Bright Red	700	90	80	15	50	4.4	5.0	3.5	
	BS-AA15RE	BS-CA15RE										
	BS-AA12RD	BS-CA12RD	GaP/ Green	568	30	160	30	150	4.4	5.0	5.0	
	BS-AA13RD	BS-CA13RD	GaAsP/GaP/ Yellow	585	35	160	30	150	4.2	5.0	4.0	
	BS-AA14RD	BS-CA14RD	GaAsP/GaP/ Hi-Eff.Red	635	45	160	30	150	4.0	5.0	5.0	
			GaAsP/GaP/ Orange									
	BS-AA16RD	BS-CA16RD	GaAlAs/ SH Super Red	660	20	160	30	150	3.4	5.0	10.0	
BS-AA1FRD	BS-CA1FRD	GaAlAs/ DDH Super Red	660	20	160	30	150	4.0	5.0	15.0		



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SD-37 BS-A_C83xRD	SD-38 BS-A_C84xRD
SD-37 dimensions: 11.00(433) top width, 8° angle, 20.32(800) height, 27.70(1.091) total height, 20.00(787) base width, 2.54x8=20.32(80) pin pitch, 8.50(335) mounting hole offset, 3.00(.118)MIN. mounting hole diameter, 15.24(.600) mounting hole diameter, 20.50(.820) mounting hole diameter. Pinout: A1, A2, B, C, D1, D2, E, F, G1, G2, J, K, L, M, N, P. NP: 1, 15, 13, 11, 10, 5, 3, 14, 16, 4, 6, 18, 9, 7, 8.	SD-38 dimensions: 11.00(433) top width, 8° angle, 20.40(800) height, 27.70(1.091) total height, 19.90(.783) base width, 2.54(.100) pin pitch, 8.40(.331) mounting hole offset, 3.00(.118)MIN. mounting hole diameter, 15.24(.600) mounting hole diameter, 20.50(.820) mounting hole diameter. Pinout: A, B, C, D, E, F, G, RDP. NP: 1, 8, 9, 16, 18.
SD-39 BS-A_C85xRD	SD-40 BS-A_C86xRD
SD-39 dimensions: 11.60(457) top width, 8° angle, 20.30(800) height, 25.00(.984) total height, 18.60(.732) base width, 2.54(.100) pin pitch, 1.30(.051) mounting hole offset, 10.60(.417) mounting hole offset, 3.00(.118)MIN. mounting hole diameter, 15.24(.600) mounting hole diameter, 20.50(.820) mounting hole diameter. Pinout: A, B, C, D, E, F, G, DP. NP: 1, 6, 8, 16, 18.	SD-40 dimensions: 11.00(433) top width, 8° angle, 20.00(.787) height, 29.00(1.141) total height, 20.00(.787) base width, 2.54(.100) pin pitch, 10.10(.398) mounting hole offset, 3.00(.118)MIN. mounting hole diameter, 15.24(.600) mounting hole diameter, 20.50(.820) mounting hole diameter. Pinout: A, B, C, D, E, F, G, DP. NP: 1, 6, 4, 2, 1, 9, 10, 5.
SD-41 BS-A_CA0xRD	SD-42 BS-A_CA1xRD
SD-41 dimensions: 13.00(.512) top width, 10° angle, 26.00(1.02) height, 32.90(1.295) total height, 22.50(.885) base width, 2.54(.100) pin pitch, 8.50(.337) mounting hole offset, 3.00(.118)MIN. mounting hole diameter, 15.24(.600) mounting hole diameter, 20.50(.820) mounting hole diameter. Pinout: A, B, C, D, E, F, G, DP. NP: 4, 5, 12.	SD-42 dimensions: 14.10(.555) top width, 10° angle, 25.40(1.00) height, 33.90(1.335) total height, 24.00(.945) base width, 2.54(.100) pin pitch, 10.50(.413) mounting hole offset, 3.00(.118)MIN. mounting hole diameter, 15.24(.600) mounting hole diameter, 20.50(.820) mounting hole diameter. Pinout: A, B, C, D, E, F, G, DP. NP: 7, 6, 4, 2, 1, 9, 10, 5.

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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