

SINGLE 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 λ_p (nm)	$\Delta \lambda$ (nm)	Pd (mw)	If (mA)	Ifp (mA)	Vf (v)		Iv. Typ. Per.Seg. (mcd)		
									Typ.	Max.			
1.00" Alpha-Numeric Displays	BS-AA21RD	BS-CA21RD	GaAsP/Red	655	40	160	40	200	3.4	4.0	2.5	SD-43	
	BS-AA25RD	BS-CA25RD	GaP/ Bright Red	700	90	80	15	50	4.4	5.0	3.5		
	BS-AA25RE	BS-CA25RE											
	BS-AA22RD	BS-CA22RD	GaP/ Green	568	30	160	30	150	4.4	5.0	5.0		
	BS-AA23RD	BS-CA23RD	GaAsP/GaP/ Yellow	585	35	160	30	150	4.2	5.0	4.0		
	BS-AA24RD	BS-CA24RD	GaAsP/GaP/ Hi-Eff.Red	635	45	160	30	150	4.0	5.0	5.0		
			GaAsP/GaP/ Orange										
	BS-AA26RD	BS-CA26RD	GaAlAs/ SH Super Red	660	20	160	30	150	3.4	5.0	10.0		
BS-AA2FRD	BS-CA2FRD	GaAlAs/ DDH Super Red	660	20	160	30	150	4.0	5.0	15.0			
1.00" Single-Digit	BS-AA31RD	BS-CA31RD	GaAsP/Red	655	40	160	40	200	3.4	4.0	2.5	SD-44	
	BS-AA35RD	BS-CA35RD	GaP/ Bright Red	700	90	80	15	50	4.4	5.0	3.5		
	BS-AA35RE	BS-CA35RE											
	BS-AA32RD	BS-CA32RD	GaP/ Green	568	30	160	30	150	4.4	5.0	5.0		
	BS-AA33RD	BS-CA33RD	GaAsP/GaP/ Yellow	585	35	160	30	150	4.2	5.0	4.0		
	BS-AA34RD	BS-CA34RD	GaAsP/GaP/ Hi-Eff.Red	635	45	160	30	150	4.0	5.0	5.0		
			GaAsP/GaP/ Orange										
	BS-AA36RD	BS-CA36RD	GaAlAs/ SH Super Red	660	20	160	30	150	3.4	5.0	10.0		
	BS-AA3FRD	BS-CA3FRD	GaAlAs/ DDH Super Red	660	20	160	30	150	4.0	5.0	15.0		
	1.00" Single-Digit	BS-AA41RD	BS-CA41RD	GaAsP/Red	655	40	160	40	200	3.4	4.0	2.5	SD-45
BS-AA45RD		BS-CA45RD	GaP/ Bright Red	700	90	80	15	50	4.4	5.0	3.5		
BS-AA45RE		BS-CA45RE											
BS-AA42RD		BS-CA42RD	GaP/ Green	568	30	160	30	150	4.4	5.0	5.0		
BS-AA43RD		BS-CA43RD	GaAsP/GaP/ Yellow	585	35	160	30	150	4.2	5.0	4.0		
BS-AA44RD		BS-CA44RD	GaAsP/GaP/ Hi-Eff.Red	635	45	160	30	150	4.0	5.0	5.0		
			GaAsP/GaP/ Orange										
BS-AA46RD		BS-CA46RD	GaAlAs/ SH Super Red	660	20	160	30	150	3.4	5.0	10.0		
BS-AA4FRD	BS-CA4FRD	GaAlAs/ DDH Super Red	660	20	160	30	150	4.0	5.0	15.0			
1.00" Alpha-Numeric Displays	BS-AA51RD	BS-CA51RD	GaAsP/Red	655	40	160	40	200	3.4	4.0	2.5	SD-46	
	BS-AA55RD	BS-CA55RD	GaP/ Bright Red	700	90	80	15	50	4.4	5.0	3.5		
	BS-AA55RE	BS-CA55RE											
	BS-AA52RD	BS-CA52RD	GaP/ Green	568	30	160	30	150	4.4	5.0	5.0		
	BS-AA53RD	BS-CA53RD	GaAsP/GaP/ Yellow	585	35	160	30	150	4.2	5.0	4.0		
	BS-AA54RD	BS-CA54RD	GaAsP/GaP/ Hi-Eff.Red	635	45	160	30	150	4.0	5.0	5.0		
			GaAsP/GaP/ Orange										
	BS-AA56RD	BS-CA56RD	GaAlAs/ SH Super Red	660	20	160	30	150	3.4	5.0	10.0		
BS-AA5FRD	BS-CA5FRD	GaAlAs/ DDH Super Red	660	20	160	30	150	4.0	5.0	15.0			
1.20" Single-Digit	BS-AB11RD	BS-CB11RD	GaAsP/Red	655	40	160	40	200	3.4	4.0	2.5	SD-47	
	BS-AB15RD	BS-CB15RD	GaP/ Bright Red	700	90	80	15	50	4.4	5.0	3.5		
	BS-AB15RE	BS-CB15RE											
	BS-AB12RD	BS-CB12RD	GaP/ Green	568	30	160	30	150	4.4	5.0	5.0		
	BS-AB13RD	BS-CB13RD	GaAsP/GaP/ Yellow	585	35	160	30	150	4.2	5.0	4.0		
	BS-AB14RD	BS-CB14RD	GaAsP/GaP/ Hi-Eff.Red	635	45	160	30	150	4.0	5.0	5.0		
			GaAsP/GaP/ Orange										
	BS-AB16RD	BS-CB16RD	GaAlAs/ SH Super Red	660	20	160	30	150	3.4	5.0	10.0		
	BS-AB1FRD	BS-CB1FRD	GaAlAs/ DDH Super Red	660	20	160	30	150	4.0	5.0	15.0		
	1.20" Single-Digit	BS-AB21RD	BS-CB21RD	GaAsP/Red	655	40	160	40	200	3.4	4.0	2.5	SD-48
		BS-AB25RD	BS-CB25RD	GaP/ Bright Red	700	90	80	15	50	4.4	5.0	3.5	
		BS-AB25RE	BS-CB25RE										
		BS-AB22RD	BS-CB22RD	GaP/ Green	568	30	160	30	150	4.4	5.0	5.0	
		BS-AB23RD	BS-CB23RD	GaAsP/GaP/ Yellow	585	35	160	30	150	4.2	5.0	4.0	
BS-AB24RD		BS-CB24RD	GaAsP/GaP/ Hi-Eff.Red	635	45	160	30	150	4.0	5.0	5.0		
			GaAsP/GaP/ Orange										
BS-AB26RD		BS-CB26RD	GaAlAs/ SH Super Red	660	20	160	30	150	3.4	5.0	10.0		
BS-AB2FRD	BS-CB2FRD	GaAlAs/ DDH Super Red	660	20	160	30	150	4.0	5.0	15.0			

SD-43 BS-^A_CA2xRD Top view dimensions: 13.70(.539), 10°, 25.60(1.00), 33.00(1.299), 22.80(.897), $\varnothing$1.6(.063), 2.54(.100), 5.08(.200). Side view dimensions: 8.80(.346), 3.00(.118)MIN., 18.00(.708), $\varnothing$0.50(.020). Cross-sectional view labels: A1, A2, F, K, L, B, G, G2, P, N, M, C, D1, D2, DP. Pin configuration: DP, A1, A2, B, C, D1, D2, E, F, G1, G2, J, K, L, M, N, P. Pin numbers: 13, 2, 22, 21, 16, 10, 14, 9, 4, 7, 19, 3, 24, 23, 15, 12, 11. NC: 1. NP: 5,8,17,20.	SD-44 BS-^A_CA3xRD Top view dimensions: 14.10(.555), 10°, 25.40(1.00), 33.90(1.335), 24.00(.945), $\varnothing$2.5(.098). Side view dimensions: 10.50(.413), 3.00(.118)MIN., 2.54(.100). Cross-sectional view labels: A, B, F, G, E, C, D, DP. Pin configuration: A, B, C, D, E, F, G, DP. Pin numbers: 9, 8, 5, 2, 1, 12, 14, 6. NP: 3,7,10,13.
SD-45 BS-^A_CA4xRD Top view dimensions: 14.70(.579), 10°, 25.4(1.00), 33.00(1.299), 22.86(.900), $\varnothing$3.0(.118). Side view dimensions: 27.94(1.100), 1.3(.052). Cross-sectional view labels: A, B, F, G, E, C, D, DP. Pin configuration: A, B, C, D, E, F, G, DP. Pin numbers: 9, 8, 5, 2, 1, 12, 14, 6. NP: 3,7,10,13.	SD-46 BS-^A_CA5xRD Top view dimensions: 13.60(.535), 8°, 25.4(1.00), 33.00(1.299), 22.76(.896), $\varnothing$1.84(.072). Side view dimensions: 8.90(.350), 3.00(.118)MIN., 18.00(.708), $\varnothing$0.50(.020). Cross-sectional view labels: A1, A2, F, K, L, B, G, G2, P, N, M, C, D1, D2, DP1. Pin configuration: DP1, DP2, A1, A2, B, C, D1, D2, E, F, G1, G2, J, K, L, M, N, P. Pin numbers: 11, 1, 2, 18, 17, 14, 8, 12, 7, 4, 6, 16, 3, 20, 19, 13, 10, 9.
SD-47 BS-^A_CB1xRD Top view dimensions: 17.30(.681), 10°, 30.40(1.20), 40.70(1.602), 28.80(1.134), $\varnothing$3.0(.118). Side view dimensions: 35.50(1.398), 9.00(.354), 3.00(.118)MIN., 2.54(.100). Cross-sectional view labels: A, B, F, G, E, C, D, DP. Pin configuration: A, B, C, D, E, F, G, DP. Pin numbers: 7, 6, 4, 3, 2, 9, 10, 5.	SD-48 BF-^A_CB2xRD Top view dimensions: 17.30(.681), 10°, 30.40(1.20), 40.70(1.602), 28.80(1.134), $\varnothing$3.0(.118). Side view dimensions: 9.00(.354), 3.00(.118)MIN., 2.54(.100). Cross-sectional view labels: A, B, F, G, E, C, D, DP. Pin configuration: A, B, C, D, E, F, G, DP. Pin numbers: 7, 6, 4, 3, 2, 9, 10, 8.

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.