

SURFACE MOUNT ALUMINUM ELECTROLYTIC CAPACITORS



BDS(MVK) Series

- Vertical SMD type.
 - Wide Temperature range.
 - For CD/DVD-ROM, Navigation, LCD MT/TV
 - RoHS compliant.
 - Halogen-free capacitors are also available.

A blue circular icon containing the white text "Solvent-proof".

$$WV \leq 63V_{DC}$$



MV → **BDS
(MVK)**

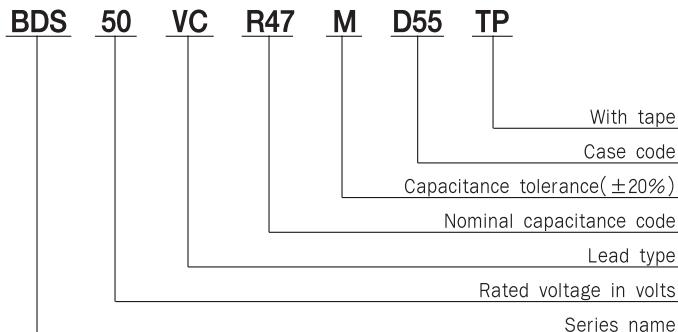
Wide Temp.

SPECIFICATIONS

Wide Temp.

BDS(MVK) Series

PART NUMBERING SYSTEM



Capacitance	Code
0.1 μ F	R1
0.47 μ F	R47
1.0 μ F	1
4.7 μ F	4R7
10 μ F	10
100 μ F	100



SURFACE MOUNT ALUMINUM ELECTROLYTIC CAPACITORS

DIMENSIONS OF BDS(MVK) Series(Type:VC)

Unit(mm)

DIMENSIONS		MARKING																																																																																																																																																																																																					
● Vibration Resistance		(Note 1)																																																																																																																																																																																																					
(Size code:D55~M22) (Size code:H10~M22)		(Note 2)																																																																																																																																																																																																					
■ : Dummy terminals		Note 1 : L±0.5 for 8×6.3(H63) ~ 18×21.5(M22) Note 2 : 4×5.2(D55), 5×5.2(E55) is excluded symbol mark Note 3 : 6.3WV is marked by 6V																																																																																																																																																																																																					
Recommended Solder land on PC board		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Case code</th><th>ØD</th><th>L</th><th>A</th><th>B</th><th>C</th><th>W</th><th>P</th><th>a</th><th>b</th><th>c</th><th>a</th><th>b</th><th>c</th></tr> </thead> <tbody> <tr><td>D55</td><td>4</td><td>5.2</td><td>4.3</td><td>4.3</td><td>5.1</td><td>0.5~0.8</td><td>1.0</td><td>1.0</td><td>2.6</td><td>1.6</td><td></td><td></td><td></td></tr> <tr><td>E55</td><td>5</td><td>5.2</td><td>5.3</td><td>5.3</td><td>5.9</td><td>0.5~0.8</td><td>1.4</td><td>1.4</td><td>3.0</td><td>1.6</td><td></td><td></td><td></td></tr> <tr><td>F55</td><td>6.3</td><td>5.2</td><td>6.6</td><td>6.6</td><td>7.2</td><td>0.5~0.8</td><td>1.9</td><td>1.9</td><td>3.5</td><td>1.6</td><td></td><td></td><td></td></tr> <tr><td>F60</td><td>6.3</td><td>5.7</td><td>6.6</td><td>6.6</td><td>7.2</td><td>0.5~0.8</td><td>1.9</td><td>1.9</td><td>3.5</td><td>1.6</td><td></td><td></td><td></td></tr> <tr><td>F80</td><td>6.3</td><td>7.7</td><td>6.6</td><td>6.6</td><td>7.2</td><td>0.5~0.8</td><td>1.9</td><td>1.9</td><td>3.5</td><td>1.6</td><td></td><td></td><td></td></tr> <tr><td>H63</td><td>8</td><td>6.3</td><td>8.3</td><td>8.3</td><td>9.0</td><td>0.5~0.8</td><td>2.3</td><td>2.3</td><td>4.5</td><td>1.6</td><td></td><td></td><td></td></tr> <tr><td>H10</td><td>8</td><td>10</td><td>8.3</td><td>8.3</td><td>9.0</td><td>0.7~1.1</td><td>3.1</td><td>3.1</td><td>4.2</td><td>2.2</td><td>3.1</td><td>4.2</td><td>3.5</td></tr> <tr><td>J10</td><td>10</td><td>10</td><td>10.3</td><td>10.3</td><td>11.0</td><td>0.7~1.1</td><td>4.5</td><td>4.5</td><td>4.4</td><td>2.2</td><td>4.5</td><td>4.4</td><td>3.5</td></tr> <tr><td>K14</td><td>12.5</td><td>13.5</td><td>13.0</td><td>13.0</td><td>13.7</td><td>1.0~1.3</td><td>4.2</td><td>4.0</td><td>5.7</td><td>2.5</td><td>3.4</td><td>6.3</td><td>9.3</td></tr> <tr><td>L17</td><td>16</td><td>16.5</td><td>17.0</td><td>17.0</td><td>18.0</td><td>1.0~1.3</td><td>6.5</td><td>6.0</td><td>6.9</td><td>2.5</td><td>4.7</td><td>7.8</td><td>9.6</td></tr> <tr><td>L22</td><td>16</td><td>21.5</td><td>17.0</td><td>17.0</td><td>18.0</td><td>1.0~1.3</td><td>6.5</td><td>6.0</td><td>6.9</td><td>2.5</td><td></td><td></td><td></td></tr> <tr><td>M17</td><td>18</td><td>16.5</td><td>19.0</td><td>19.0</td><td>20.0</td><td>1.0~1.3</td><td>6.5</td><td>6.0</td><td>7.9</td><td>2.5</td><td>4.7</td><td>8.8</td><td>9.6</td></tr> <tr><td>M22</td><td>18</td><td>21.5</td><td>19.0</td><td>19.0</td><td>20.0</td><td>1.0~1.3</td><td>6.5</td><td>6.0</td><td>7.9</td><td>2.5</td><td></td><td></td><td></td></tr> </tbody> </table>		Case code	ØD	L	A	B	C	W	P	a	b	c	a	b	c	D55	4	5.2	4.3	4.3	5.1	0.5~0.8	1.0	1.0	2.6	1.6				E55	5	5.2	5.3	5.3	5.9	0.5~0.8	1.4	1.4	3.0	1.6				F55	6.3	5.2	6.6	6.6	7.2	0.5~0.8	1.9	1.9	3.5	1.6				F60	6.3	5.7	6.6	6.6	7.2	0.5~0.8	1.9	1.9	3.5	1.6				F80	6.3	7.7	6.6	6.6	7.2	0.5~0.8	1.9	1.9	3.5	1.6				H63	8	6.3	8.3	8.3	9.0	0.5~0.8	2.3	2.3	4.5	1.6				H10	8	10	8.3	8.3	9.0	0.7~1.1	3.1	3.1	4.2	2.2	3.1	4.2	3.5	J10	10	10	10.3	10.3	11.0	0.7~1.1	4.5	4.5	4.4	2.2	4.5	4.4	3.5	K14	12.5	13.5	13.0	13.0	13.7	1.0~1.3	4.2	4.0	5.7	2.5	3.4	6.3	9.3	L17	16	16.5	17.0	17.0	18.0	1.0~1.3	6.5	6.0	6.9	2.5	4.7	7.8	9.6	L22	16	21.5	17.0	17.0	18.0	1.0~1.3	6.5	6.0	6.9	2.5				M17	18	16.5	19.0	19.0	20.0	1.0~1.3	6.5	6.0	7.9	2.5	4.7	8.8	9.6	M22	18	21.5	19.0	19.0	20.0	1.0~1.3	6.5	6.0	7.9	2.5			
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RATINGS OF BDS(MVK) Series

μF	Vdc	6.3	10	16	25	35	50	63	100
0.1							D55	1.3	
0.22							D55	2.6	
0.33							D55	3.2	
0.47							D55	3.8	
1							D55	5.6	
2.2							D55	10	
3.3							D55	14	
4.7						D55	15	E55	20
10				D55	16	E55	25	F55	29
22	D55	21	E55	30	E55	40	F55	40	F60
33	E55	34	E55	34	F55	45	F55	80	H10
47	E55	36	F55	48	F55	48	F60 H63	52 80	H10
100	F55 F60	56	F60 H63	90	F60 H10	110 180	F80 H63	135	H10
220	H63	150	F80 H63	150	F80 H10	150 275	H10	275	J10
330	F80 H10	127 290	J10	450	J10	450	J10	450	K14
470	J10	460	J10	460	J10	460	K14	480	K14
1,000	J10	520	J10	540	K14	550	L17	750	M22
1,500	J10	550	K14	620					
2,200	K14	680	L17	850	M17	1,000	M22	1,300	
3,300	M17	1,000	M17	1,100	M17	1,200			
4,700	L22	1,200	M22	1,350					
6,800	M22	1,350							

μF	Vdc	160	200	250	400	450
3.3				K14	30	K14
4.7				L17	60	L17
10	J10	45	K14	80	L17	85
22	K14	85	K14	85	L17	180
33	K14	95	L17	220	M22	130
47	L17	260	M17	270	M22	280
68	M17	320	M22	330		
100	L22	380				

↑
↑
Rated Ripple Current(mArms/105°C, 120Hz)
Case code

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[TYEH1H106F55MTR](#) [TYEH1V106E55MTR](#) [35SEV47M6.3X8](#) [35SGV220M10X10.5](#) [VES2R2M1HTR-0405](#) [VZH102M1ATR-1010](#)
[50SEV10M6.3X5.5](#) [50SGV1M4X6.1](#) [SC1C476M05005VR](#) [SC1E107M0806BVR](#) [SC1E227M08010VR](#) [SC1H106M05005VR](#)
[SC1H106M6L005VR](#) [SC1H227M10010VR](#) [SC1H335M04005VR](#) [CE4.7/50-SMD](#) [VEJ4R7M1VTR-0406](#) [VZH331M1ETR-0810](#)
[VES101M1CTR-0605](#) [TYEH1H475E55MTR](#) [6.3SEV22M4X5.5](#) [6.3SEV47M4X5.5](#) [EEEFK1H151GP](#) [EEEFK1A681GP](#) [EEE0GA471XP](#)
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