

SZV SERIES

105°C Low Impedance, Lead Free Reflow Soldering.

◆ FEATURES

- Load Life : 105°C 1000 hours.
- Lead free reflow soldering is available.
- Available for high density mounting.
- Low impedance at 100kHz with selected materials.
- RoHS compliance.



◆ SPECIFICATIONS

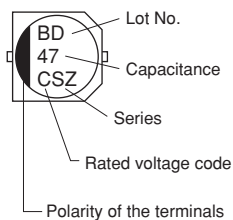
Items	Characteristics																		
Category Temperature Range	-55 ~+105°C																		
Rated Voltage Range	6.3~35V.DC																		
Capacitance Tolerance	± 20%(20°C,120Hz)																		
Leakage Current(MAX)	I=0.01CV or 3μA whichever is greater. (After 2 minutes application of rated voltage) I=Leakage Current(μA) C=Rated Capacitance(μF) V=Rated Voltage(V)																		
Dissipation Factor(MAX) (tanδ)	<table><tr><td>Rated Voltage (V)</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td></tr><tr><td>tanδ</td><td>0.26</td><td>0.19</td><td>0.16</td><td>0.14</td><td>0.12</td></tr></table> (20°C,120Hz)	Rated Voltage (V)	6.3	10	16	25	35	tanδ	0.26	0.19	0.16	0.14	0.12						
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Endurance	After applying rated voltage with rated ripple current for 1000 hrs at 105°C, the capacitors shall meet the following requirements. <table><tr><td>Capacitance Change</td><td>Within ±25% of the initial value.</td></tr><tr><td>Dissipation Factor</td><td>Not more than 200% of the specified value.</td></tr><tr><td>Leakage Current</td><td>Not more than the specified value.</td></tr></table>	Capacitance Change	Within ±25% of the initial value.	Dissipation Factor	Not more than 200% of the specified value.	Leakage Current	Not more than the specified value.												
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Low Temperature Stability Impedance Ratio(MAX)	<table><tr><td>Rated Voltage (V)</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td></tr><tr><td>Z(-25°C)/Z(20°C)</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td></tr><tr><td>Z(-55°C)/Z(20°C)</td><td>5</td><td>4</td><td>4</td><td>3</td><td>3</td></tr></table> (120Hz)	Rated Voltage (V)	6.3	10	16	25	35	Z(-25°C)/Z(20°C)	2	2	2	2	2	Z(-55°C)/Z(20°C)	5	4	4	3	3
Rated Voltage (V)	6.3	10	16	25	35														
Z(-25°C)/Z(20°C)	2	2	2	2	2														
Z(-55°C)/Z(20°C)	5	4	4	3	3														

◆ MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

Frequency (Hz)		120	1k	10k	100k≤
Coefficient	1μF	0.30	0.60	0.80	1.00
	2.2~4.7μF	0.42	0.60	0.80	1.00
	10~33μF	0.55	0.75	0.90	1.00
	47~100μF	0.70	0.85	0.95	1.00

◆ MARKING



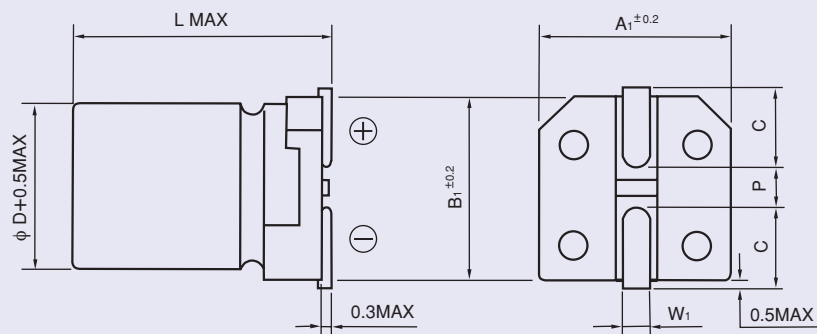
Rated Voltage (V)	6.3	10	16	25	35
Rated Voltage code	j	A	C	E	V

◆ PART NUMBER

<u>□□□</u>	<u>SZV</u>	<u>□□□□□</u>	<u>□</u>	<u>□□□</u>	<u>DxL</u>
Rated Voltage	Series	Rated Capacitance	Capacitance Tolerance	Option	Case Size

◆ DIMENSIONS

(mm)



ϕD	L	A_1	B_1	C	W_1	P
4	5.5	4.3	4.3	1.8	0.5~0.8	1.0
5	5.5	5.3	5.3	2.2	0.5~0.8	1.3
6.3	5.5	6.6	6.6	2.7	0.5~0.8	1.8

◆ STANDARD SIZE

Size ϕD (mm), Ripple Current (mA r.m.s./105°C, 100kHz), Impedance(Ω MAX/20°C, 100kHz)

Cap(μF) \ WV (V.DC)	6.3 (0J)			10 (1A)			16 (1C)		
	Size	Ripple	Z	Size	Ripple	Z	Size	Ripple	Z
10							4×5.5	60	3.0
22	4×5.5	60	3.0				5×5.5	95	1.8
33				5×5.5	95	1.8	6.3×5.5	140	1.0
47	5×5.5	95	1.8				6.3×5.5	140	1.0
100	6.3×5.5	140	1.0						

Cap(μF) \ WV (V.DC)	25 (1E)			35 (1V)		
	Size	Ripple	Z	Size	Ripple	Z
1				4×5.5	60	3.9
2.2				4×5.5	60	3.7
3.3				4×5.5	60	3.6
4.7	4×5.5	60	3.6	4×5.5	60	3.6
10				5×5.5	95	2.0
22				6.3×5.5	140	1.0
33	6.3×5.5	140	1.0			