

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

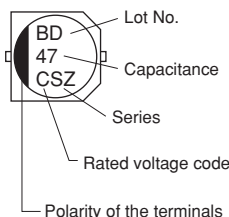
Items	Characteristics																					
Category Temperature Range	-55~ +105°C																					
Rated Voltage Range	6.3~35V.DC																					
Capacitance Tolerance	±20% (20°C, 120Hz)																					
Leakage Current(MAX)	I=0.01CV or 3 μA whichever is greater. (After 2 minutes application of rated voltage) I=Leakage Current(μA) C=Rated Capacitance(μF) V=Rated Voltage(V)																					
(tanδ) Dissipation Factor(MAX)	<table border="1"> <tr> <td>Rated Voltage (V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>(20°C, 120Hz)</td> </tr> <tr> <td>tan δ</td> <td>0.26</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td></td> </tr> </table>	Rated Voltage (V)	6.3	10	16	25	35	(20°C, 120Hz)	tan δ	0.26	0.19	0.16	0.14	0.12								
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tan δ	0.26	0.19	0.16	0.14	0.12																	
Endurance	<p>After applying rated voltage with rated ripple current for 1000 hrs at 105°C, the capacitors shall meet the following requirements.</p> <table border="1"> <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 border="1"> <tr> <td>Rated Voltage(V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>(120Hz)</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> <td></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> <td></td> </tr> </table>	Rated Voltage(V)	6.3	10	16	25	35	(120Hz)	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	(120Hz)																
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

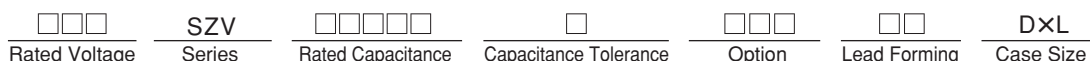
Frequency (Hz)		120	1k	10k	100k ≤
Coefficient	1 μF	0.30	0.60	0.80	1.00
	2.2~4.7 μF	0.42	0.60	0.80	1.00
	10~33 μF	0.55	0.75	0.90	1.00
	47~100 μF	0.70	0.85	0.95	1.00

◆MARKING



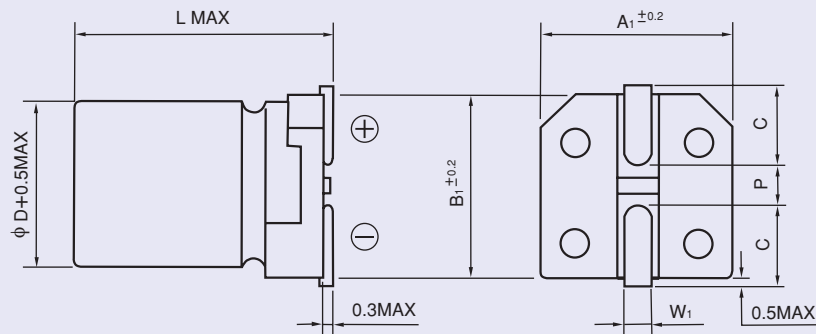
Rated Voltage (V)	6.3	10	16	25	35
Rated Voltage code	j	A	C	E	V

◆PART NUMBER



◆ 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($\Omega \text{ MAX}/20^\circ\text{C}$, 100kHz)

Cap(μF) \diagdown WV (V.DC)	6.3 (0J)			10 (1A)			16 (1C)		
	Size	Ripple	Z	Size	Ripple	Z	Size	Ripple	Z
10							4X5.5	60	3.0
22	4X5.5	60	3.0				5X5.5	95	1.8
33				5X5.5	95	1.8			
47	5X5.5	95	1.8				6.3X5.5	140	1.0
100	6.3X5.5	140	1.0						

Cap(μF) \diagdown WV (V.DC)	25 (1E)			35 (1V)		
	Size	Ripple	Z	Size	Ripple	Z
1				4X5.5	60	3.9
2.2				4X5.5	60	3.7
3.3				4X5.5	60	3.6
4.7	4X5.5	60	3.6	4X5.5	60	3.6
10				5X5.5	95	2.0
22				6.3X5.5	140	1.0
33	6.3X5.5	140	1.0			

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