

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

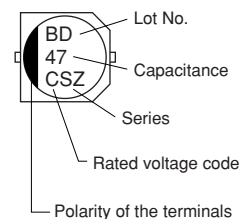
Items	Characteristics																							
Category Temperature Range	-55 ~ +105°C																							
Rated Voltage Range	6.3 ~ 35V.DC																							
Capacitance Tolerance	±20%(20°C,120Hz)																							
Leakage Current(MAX)	I=0.01CV or 3 μA whichever is greater. (After 2 minutes application of rated voltage) I=Leakage Current(μA) C=Rated Capacitance(μF) V=Rated Voltage(V)																							
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						
Rated Voltage (V)	6.3	10	16	25	35																			
tanδ	0.26	0.19	0.16	0.14	0.12																			
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 colspan="5">Within ±25% of the initial value.</td></tr><tr><td>Dissipation Factor</td><td colspan="5">Not more than 200% of the specified value.</td></tr><tr><td>Leakage Current</td><td colspan="5">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.				
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.																							
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				
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



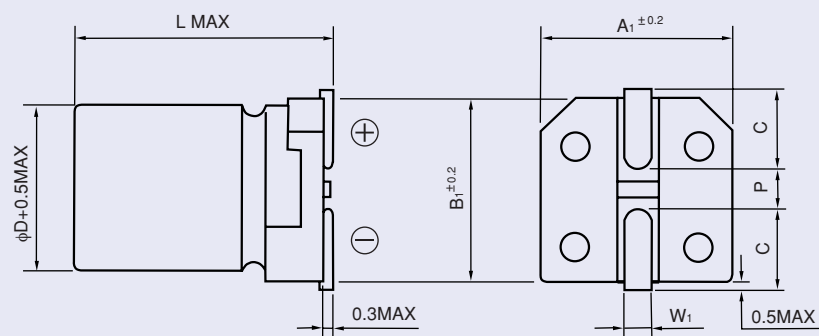
Rated Voltage (V)	6.3	10	16	25	35
Rated Voltage code	j	A	C	E	V

◆PART NUMBER

□□□ **SZV** □□□□□ □ □□□ **DxL**
 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 ϕ D(mm), Ripple Current (mA r.m.s./105°C, 100kHz), Impedance(Ω MAX/20°C, 100kHz)[illegible]