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)	(20°C,120Hz)
Endurance	After applying rated voltage with rated ripple current for 1000 hrs at 105°C, the capacitors shall meet the following requirements.
Low Temperature Stability Impedance Ratio(MAX)	(120Hz)

Rated Voltage (V)	6.3	10	16	25	35
tanδ	0.26	0.19	0.16	0.14	0.12

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.

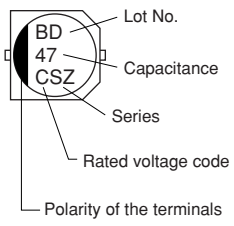
Rated Voltage(V)	6.3	10	16	25	35
Z(−25°C) /Z(20°C)	2	2	2	2	2
Z(−55°C) /Z(20°C)	5	4	4	3	3

◆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



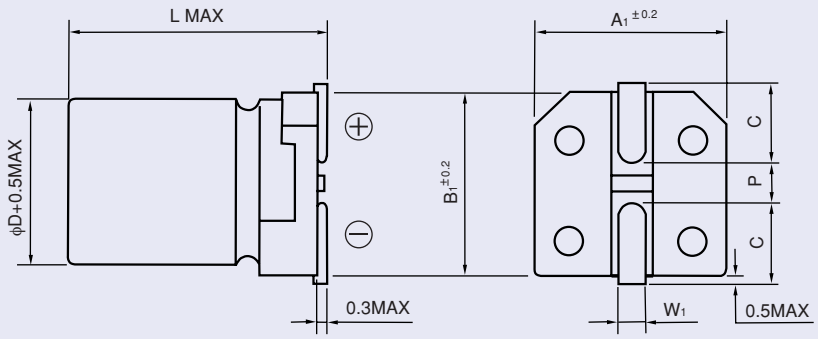
Rated Voltage (V)	6.3	10	16	25	35
Rated Voltage code	j	A	C	E	V

◆PART NUMBER

□□□	SZV	□□□□□	□	□□□	D×L
Rated Voltage	Series	Rated Capacitance	Capacitance Tolerance	Option	Case Size

◆DIMENSIONS

(mm)



φD	L	A1	B1	C	W1	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)

WV (V.DC) / Cap(μF)	6.3 (0J)			10 (1A)			16 (1C)			25 (1E)			35 (1V)		
	Size	Ripple	Z	Size	Ripple	Z	Size	Ripple	Z	Size	Ripple	Z	Size	Ripple	Z
1													4	60	3.9
2.2													4	60	3.7
3.3													4	60	3.6
4.7										4	60	3.6	4	60	3.6
10							4	60	3.0				5	95	2.0
22	4	60	3.0				5	95	1.8				6.3	140	1.0
33				5	95	1.8	6.3	140	1.0	6.3	140	1.0			
47	5	95	1.8				6.3	140	1.0						
100	6.3	140	1.0												