

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.

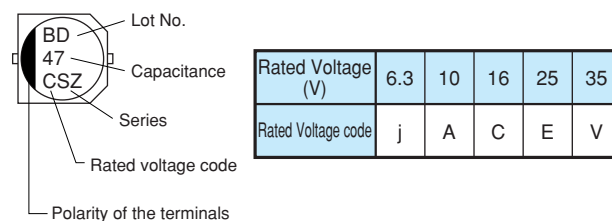

◆SPECIFICATIONS

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) (tan δ)	<table border="1"> <thead> <tr> <th>Rated Voltage (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> </tr> </thead> <tbody> <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> </tr> </tbody> </table> (20°C, 120Hz)	Rated Voltage (V)	6.3	10	16	25	35	tan δ	0.26	0.19	0.16	0.14	0.12						
Rated Voltage (V)	6.3	10	16	25	35														
tan δ	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 border="1"> <tbody> <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> </tbody> </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 border="1"> <thead> <tr> <th>Rated Voltage (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> </tr> </thead> <tbody> <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> </tbody> </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

◆PART NUMBER

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

