

**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**

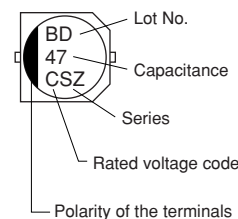
Items	Characteristics																					
Category Temperature Range	-55 ~ +105°C																					
Rated Voltage Range	6.3 ~ 35V.DC																					
Capacitance Tolerance	±20%(20°C,120Hz)																					
Leakage Current(MAX)	I=0.01CV or 3 μA whichever is greater. (After 2 minutes application of rated voltage) I=Leakage Current(μA)      C=Rated Capacitance(μF)      V=Rated Voltage(V)																					
Dissipation Factor(MAX) (tanδ)	<table 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> <th>(20°C,120Hz)</th> </tr> </thead> <tbody> <tr> <td>tanδ</td> <td>0.26</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td></td> </tr> </tbody> </table>	Rated Voltage (V)	6.3	10	16	25	35	(20°C,120Hz)	tanδ	0.26	0.19	0.16	0.14	0.12								
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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"> <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.															
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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> <th>(120Hz)</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> <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> </tbody> </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	
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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

