

ALUMINUM ELECTROLYTIC CAPACITORS

APPROVAL NO.

12567

BDA 50 VC 47 (M)

SERIES

BDA

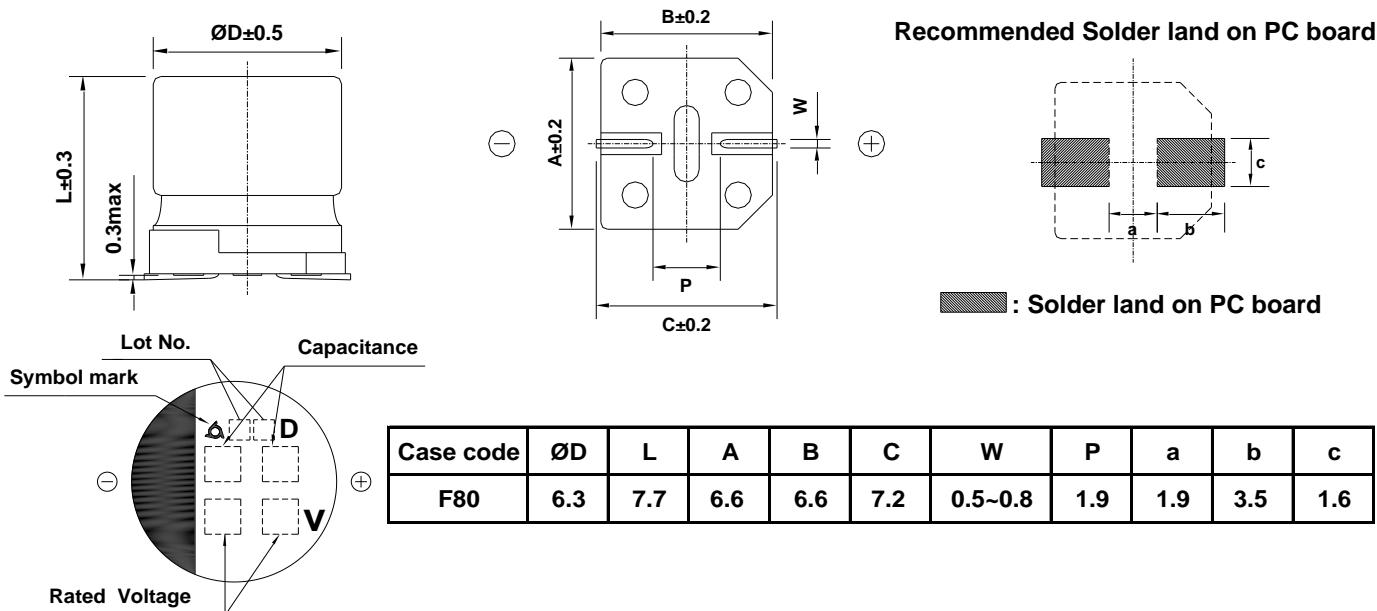
RATING

50 V 47 μ F

CASE SIZE

 \varnothing 6.3 x 7.7L

A. DIAGRAM OF DIMENSIONS



B. ELECTRICAL CHARACTERISTICS

A. OPERATING TEMPERATURE RANGE	: -40 ~ +105°C										
B. RATED VOLTAGE	: 50 V _{DC}										
C. SURGE VOLTAGE	: 63 V _{DC}										
D. CAPACITANCE TOLERANCE	: ± 20% at 20°C, 120Hz										
E. LEAKAGE CURRENT	: Lower 23.5 μ A, after 2 minutes at 20°C										
F. DISSIPATION FACTOR (TAN δ)	: Lower 0.12 at 20°C, 120Hz										
G. RATED RIPPLE CURRENT	: 71mArms at 105°C, 120Hz										
H. RATED RIPPLE CURRENT MULTIPLIERS (Frequency Multipliers)	<table border="1"> <thead> <tr> <th>Freq.(Hz)</th> <th>120</th> <th>1k</th> <th>10k</th> <th>100k</th> </tr> </thead> <tbody> <tr> <td>Factor</td> <td>1.00</td> <td>1.05</td> <td>1.08</td> <td>1.08</td> </tr> </tbody> </table>	Freq.(Hz)	120	1k	10k	100k	Factor	1.00	1.05	1.08	1.08
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I. TEMPERATURE CHARACTERISTIC (Max.Impedance ratio)	<table border="1"> <thead> <tr> <th>Z(-25°C) / Z(+20°C)</th> <th>2</th> </tr> </thead> <tbody> <tr> <td>Z(-40°C) / Z(+20°C)</td> <td>3</td> </tr> </tbody> </table> <p style="text-align: right;">(at 120Hz)</p>	Z(-25°C) / Z(+20°C)	2	Z(-40°C) / Z(+20°C)	3						
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J. LOAD LIFE : The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 2,000 hours at 105°C.

- # Capacitance change ≤ ± 20% of the initial value
- # Tan δ ≤ 200 % of the initial specified value
- # Leakage Current ≤ The initial specified value

K. SHELF LIFE : The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 105°C without voltage applied.

The rated voltage shall be applied to the capacitors for a minimum of 30 minutes, at least 24 hours and not more than 48 hours before the measurement.

- # Capacitance change ≤ ± 20% of the initial value
- # Tan δ ≤ 200 % of the initial specified value
- # Leakage Current ≤ The initial specified value

L. CLEANING CONDITIONS : Solvent proof

M. OTHERS : Satisfied characteristics KS C IEC 60384-4



SamYoung Electronics Co., Ltd.