

ALUMINUM ELECTROLYTIC CAPACITORS

APPROVAL NO.

6417

BDA 50 VC 47 (M)

SERIES

BDA

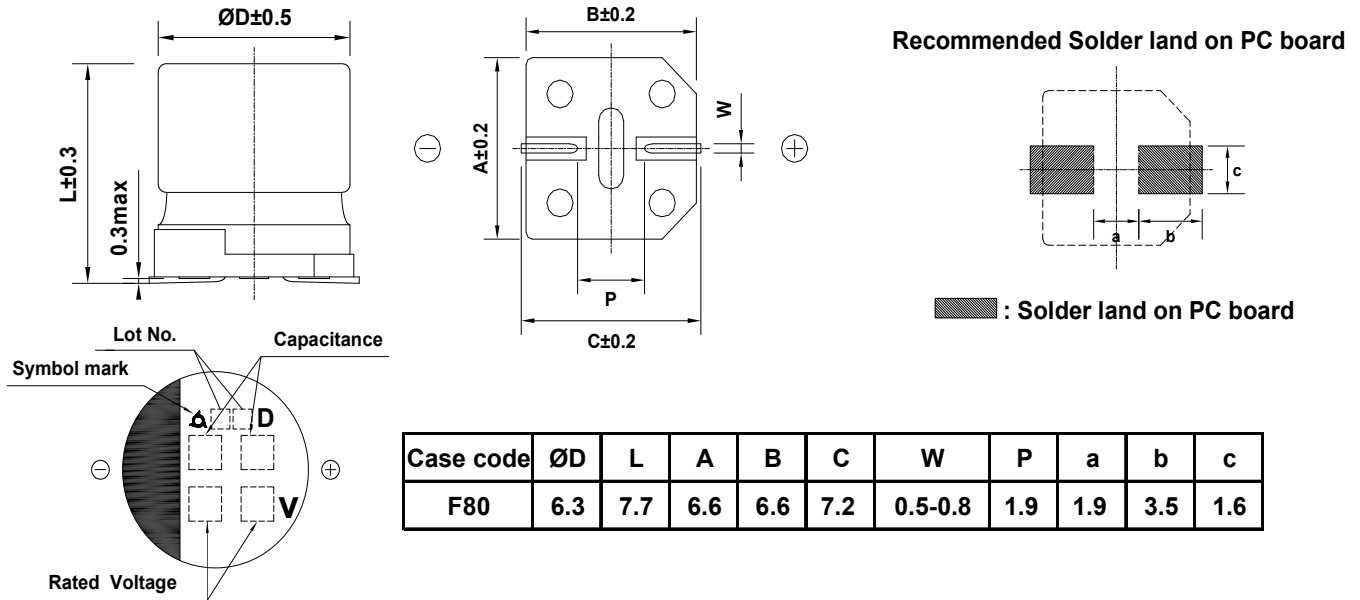
RATING

50 V 47 μ F

CASE SIZE

\varnothing 6.3 x 7.7L

A. DIAGRAM OF DIMENSION



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. MAX. RIPPLE CURRENT : **71 mArms** at 105 °C, 120Hz
- H. TEMPERATURE CHARACTERISTIC :
 (Max. Impedance ratio) $Z(-25^{\circ}\text{C}) / Z(20^{\circ}\text{C}) = \underline{2}$
 $Z(-40^{\circ}\text{C}) / Z(20^{\circ}\text{C}) = \underline{3}$ (at 120Hz)
- I. 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 \leq **±20 %** of the initial value
 - # Tan δ \leq **200 %** of the initial specified value
 - # Leakage Current \leq The initial specified value
- J. 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 \leq **±20 %** of the initial value
 - # Tan δ \leq **200 %** of the initial specified value
 - # Leakage Current \leq The initial specified value
- K. CLEANING CONDITIONS : Solvent-proof
- L. OTHERS : Satisfied characteristics KS C IEC 60384-4

