

# ALUMINUM ELECTROLYTIC CAPACITORS

APPROVAL NO.

6405

BDA 6.3 VC 100 (M)

SERIES

BDA

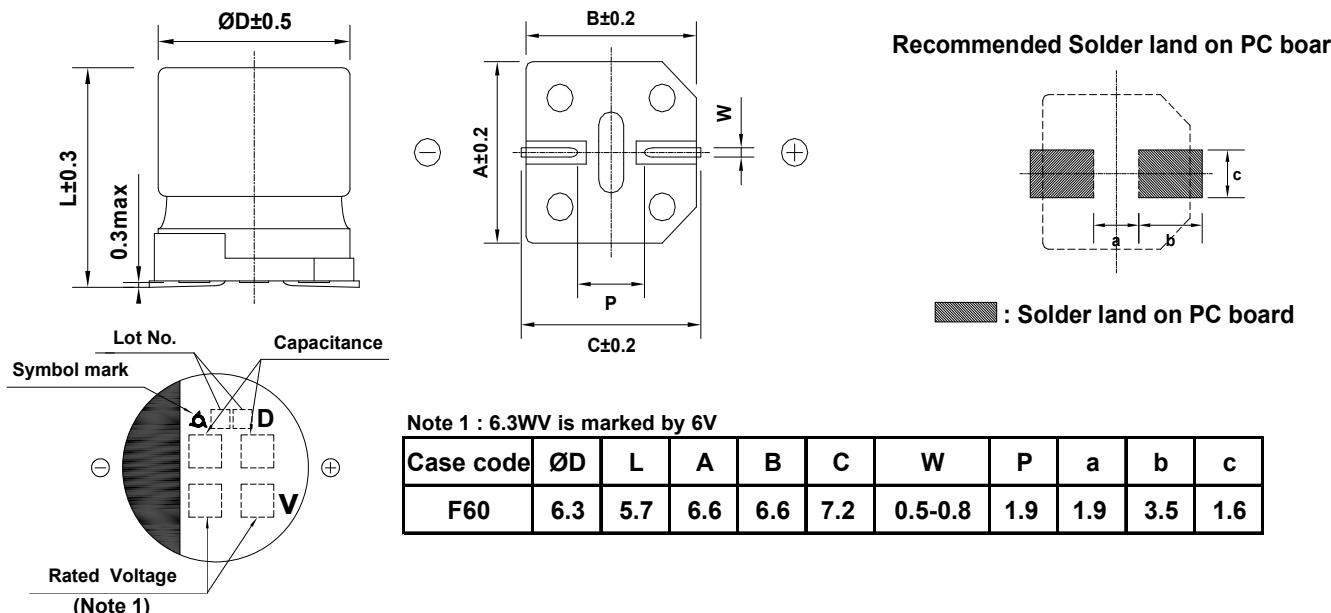
RATING

6.3 V 100  $\mu$ F

CASE SIZE

 $\varnothing 6.3 \times 5.7L$ 

## A. DIAGRAM OF DIMENSION



## B. ELECTRICAL CHARACTERISTICS

- A. OPERATING TEMPERATURE RANGE :  $-40 \sim +105^\circ\text{C}$
- B. RATED VOLTAGE :  $6.3 \text{ V}_{\text{DC}}$
- C. SURGE VOLTAGE :  $8 \text{ V}_{\text{DC}}$
- D. CAPACITANCE TOLERANCE :  $\pm 20\%$  at  $20^\circ\text{C}, 120\text{Hz}$
- E. LEAKAGE CURRENT : Lower  $6.3 \mu\text{A}$ , after 2 minutes at  $20^\circ\text{C}$
- F. DISSIPATION FACTOR ( $\text{TAN}\delta$ ) : Lower  $0.28$  at  $20^\circ\text{C}, 120\text{Hz}$
- G. MAX. RIPPLE CURRENT :  $56 \text{ mArms}$  at  $105^\circ\text{C}, 120\text{Hz}$
- H. TEMPERATURE CHARACTERISTIC :  
(Max. Impedance ratio)  $Z(-25^\circ\text{C}) / Z(20^\circ\text{C}) = 3$   
 $Z(-40^\circ\text{C}) / Z(20^\circ\text{C}) = 8$  (at 120Hz)

I. LOAD LIFE : The following specifications shall be satisfied when the capacitors are restored to  $20^\circ\text{C}$  after the rated voltage is applied for 2,000 hours at  $105^\circ\text{C}$ .

- # Capacitance change  $\leq \pm 25\%$  of the initial value
- #  $\text{Tan}\delta$   $\leq 200\%$  of the initial specified value
- # Leakage Current  $\leq$  The initial specified value

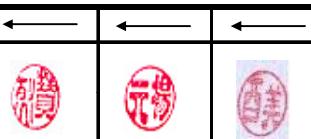
J. SHELF LIFE : The following specifications shall be satisfied when the capacitors are restored to  $20^\circ\text{C}$  after exposing them for 1,000 hours at  $105^\circ\text{C}$  without voltage applied.

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  $\leq \pm 25\%$  of the initial value
- #  $\text{Tan}\delta$   $\leq 200\%$  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



Sam Young Electronics Co., Ltd.