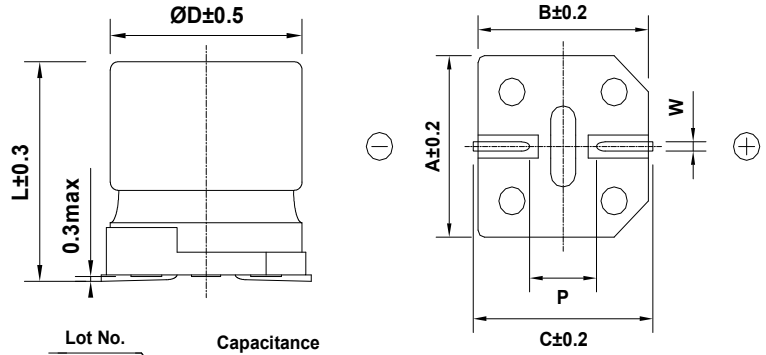
# ALUMINUM ELECTROLYTIC CAPACITORS

APPROVAL NO. 6397

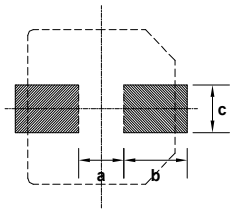
**BDA 50 VC 1 (M)**

| | |
|---|---|
| SERIES | BDA |
| RATING | 50 V 1 ㎌ |
| CASE SIZE | Ø4 × 5.2L |

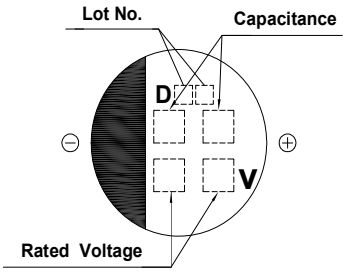
## A. DIAGRAM OF DIMENSION




Recommended Solder land on PC board




: Solder land on PC board




| Case code | ØD | L | A | B | C | W | P | a | b | c |
|---|---|---|---|---|---|---|---|---|---|---|
| D55 | 4 | 5.2 | 4.3 | 4.3 | 5.1 | 0.5-0.8 | 1.0 | 1.0 | 2.6 | 1.6 |

## B. ELECTRICAL CHARACTERISTICS

A. OPERATING TEMPERATURE RANGE : -40 ~ +105 ℃

B. RATED VOLTAGE : 50 $V_{DC}$

C. SURGE VOLTAGE : 63 $V_{DC}$

D. CAPACITANCE TOLERANCE : ± 20% at 20℃, 120㎐

E. LEAKAGE CURRENT : Lower 3 ㎂, after 2 minutes at 20℃

F. DISSIPATION FACTOR (TANδ) : Lower 0.12 at 20℃, 120㎐

G. MAX. RIPPLE CURRENT : 5.6 mArms at 105 ℃, 120㎐

H. TEMPERATURE CHARACTERISTIC :

(Max. Impedance ratio) Z(-25℃) / Z(20℃) = 2

Z(-40℃) / Z(20℃) = 3 (at 120㎐)

I. LOAD LIFE : The following specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage is applied for 2,000 hours at 105℃.

# Capacitance change ≤ ±20 % of the initial value

# Tanδ ≤ 200 % of the initial specified value

# Leakage Current ≤ The initial specified value

J. SHELF LIFE : The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 1,000 hours at 105℃ 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

# Tanδ ≤ 200 % of the initial specified value

# Leakage Current ≤ The initial specified value

K. CLEANING CONDITIONS : Solvent-proof

L. OTHERS : Satisfied charateristics KS C IEC 60384-4