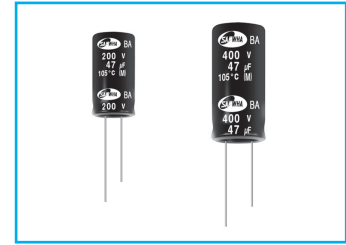


MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

BA For PSU, Smaller Case Size Series

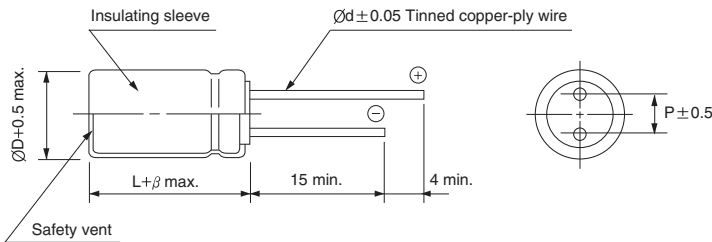
- 105°C 2000 hours
- Smaller case size for energy saving lamp & ballast
- Complied to the RoHS directive



Item	Characteristics							
Operating temperature range	-40 ~ +105°C (~ 250WV) -25 ~ +105°C (~ 350WV)							
Leakage current max.	I = 0.03CV + 15μA (CV ≤ 1000) I = 0.02CV + 25μA (after 5 minutes)							
Capacitance tolerance	±20% at 120Hz, 20°C							
Dissipation factor max. (at 120Hz, 20°C)	WV	160	200	250	350	400	450	500
	tanδ	0.10	0.10	0.10	0.15	0.15	0.15	0.20
Low temperature characteristics (Impedance ratio at 120Hz)	WV	160	200	250	350	400	450	500
	Z-25°C/Z+20°C	3	3	3	4	6	6	8
	Z-40°C/Z+20°C	4	4	4	-	-	-	-
Load life	After an application of DC bias voltage plus the rated AC ripple current for 2000 hours at 105°C. The measurement shall meet the following limits. The DC voltage plus the peak AC voltage combined must not exceed the rated voltage.							
	Leakage current	Less than specified value						
	Capacitance change	Within ±20% of initial value						
	tanδ	Less than 200% of specified value						
Shelf life (at 105°C)	After 1000 hours no load test, leakage current, capacitance and tanδ are same as load life value. The measurement shall be performed at 20°C by the KS C IEC 60384 - 4							

DRAWING

Unit : mm



ØD	8	10	12.5	16	18
P	3.5	5.0	5.0	7.5	7.5
Ød	0.6	0.6	0.6	0.8	0.8
β	1.5	2.0			

DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

μF \ WV	160	200	250	350	400	450	500							
1.0					8 × 11.5	27	10 × 12.5	27						
2.2				10 × 12.5	37	10 × 12.5	43	10 × 12.5	33					
3.3			10 × 12.5	44	10 × 12.5	53	10 × 16	58	10 × 16	51				
4.7		8 × 11.5	53	10 × 12.5	53	10 × 16	64	10 × 16	66	10 × 20	66			
10	10 × 12.5	77	10 × 12.5	86	10 × 16	88	10 × 20	110	10 × 20	125	12.5 × 20	101	12.5 × 25	96
22	10 × 16	140	10 × 16	140	10 × 20	168	12.5 × 20	175	12.5 × 25	196	16 × 25	168	16 × 25	188
33	10 × 20	206	10 × 20	206	12.5 × 20	223	16 × 20	240	16 × 25	260	18 × 25	228	18 × 25	224
47	10 × 20	266	12.5 × 20	266	12.5 × 25	297	16 × 25	311	18 × 25	317				
100	12.5 × 25	420	16 × 25	460	18 × 25	470								
220	18 × 25	500												

↑ ↑
Ripple current (mA rms) at 105°C, 120Hz
Case size ØD × L (mm)

FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

μF \ Frequency	60Hz	120Hz	1kHz	10kHz	50kHz	100kHz ≤
~ 47	0.75	1.00	1.55	1.90	2.00	2.00
100 ~	0.80	1.00	1.34	1.80	2.00	2.00