## **ALUMINUM ELECTROLYTIC CAPACITORS**



Chip Type, High Temperature Range, Vibration Resistance Low temperature ESR specification



- Highly dependable reliability withstanding load life of 1500 to 2000 hours at +150°C, Low temperature ESR.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).
- AEC-Q200 Qualified. Please contact us for details.





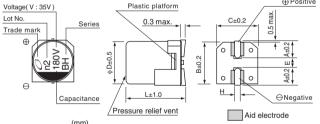
### ■Specifications

Item	Performance Characteristics						
Category Temperature Range	-40 to +150°C						
Rated Voltage Range	25 to 35V						
Rated Capacitance Range	100 to 270μF						
Capacitance Tolerance	±20% at 120Hz, 20°C						
Leakage Current *	After 2 minute's application of rated voltage at 20°C, leakage current is not more than 0.01CV.						
Tangent of loss angle (tan $\delta$ )	Rated voltage (V)	25	35	120Hz a	120Hz at 20°C		
	tan δ (max.)	0.16	0.14				
Stability at Low Temperature	Rated voltage (V)	25	35	120Hz	120Hz		
	Impedance ratio ZT/Z20 (max.) Z-(40°C) / Z(+20°C)	6	4				
Endurance	The specifications listed at right shall be capacitors are restored to 20°C after the applied for 2000 hours at 150°C ( $\phi$ 8 = 1	Capacitance change tan δ Leakage current		Within ±40% of the initial capacitance value 400% or less than the initial specified value Less than or equal to the initial specified value			
Shelf Life	After storing the capacitors under no load at 150°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the specified values for the endurance characteristics listed above.						
Resistance to soldering heat	The capacitors are kept on a hot plate for which is maintained at 250°C. The capa the characteristic requirements listed at removed from the plate and restored to	The capacitors shall meet its listed at right when they are		e change irrent	Within ±10% of the initial capacitance value Less than or equal to the initial specified value Less than or equal to the initial specified value		
Marking	Black print on the case top.						

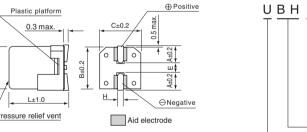
\* I : Leakage Current (μA), C : Rated Capacitance (μF), V : Rated Voltage (V)

## ■Chip Type

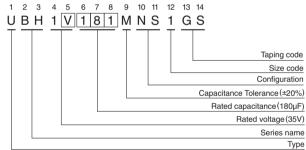
#### (φ8, φ10) (Vibration Resistance)



(11111)					
φDXL	8×10	10×10			
Α	2.9	3.2			
В	8.3	10.3			
С	8.3	10.3			
E	3.1	4.5			
L	10	10			
Н	1.1 to 1.5	1.1 to 1.5			



# Type numbering system (Example: 35V 180µF)



Voltage					
V	25	35			
Code	Е	V			

## Frequency coefficient of rated ripple current

Frequency	120 Hz	300 Hz	1 kHz	10kHz or more		
Coefficient	0.67	0.79	0.91	1.00		

### **■** Dimensions

Rated Voltage	Rated Capacitance (µF)	Case Size φD×L(mm)	tan δ	Leakage Current (µA) (at 20°C after 2 minutes	$ESR(\Omega)max.$		Rated Ripple	
(V) (code)					Initial 20°C 100kHz	Initial −40°C 100kHz	(mArms) (150°C/100kHz)	Part Number
25	150	8×10	0.16	37.5	0.26	4.5	80	UBH1E151MNS1GS
(1E)	270	10×10	0.16	67.5	0.15	2.0	120	UBH1E271MNS1GS
35	100	8×10	0.14	35.0	0.26	4.5	80	UBH1V101MNS1GS
(1V)	180	10×10	0.14	63.0	0.15	2.0	120	UBH1V181MNS1GS

<sup>•</sup> For taping specifications, recommended land size/soldering by reflow and minimum order quantity, please refer to the Guidelines for Aluminum Electrolytic Capacitors.