

# Surface mount type

# SXV Series

NEW



RoHS directive/Halogen-free compliant  
Superhigh voltage(100V)  
Endurance: 105°C 5,000h

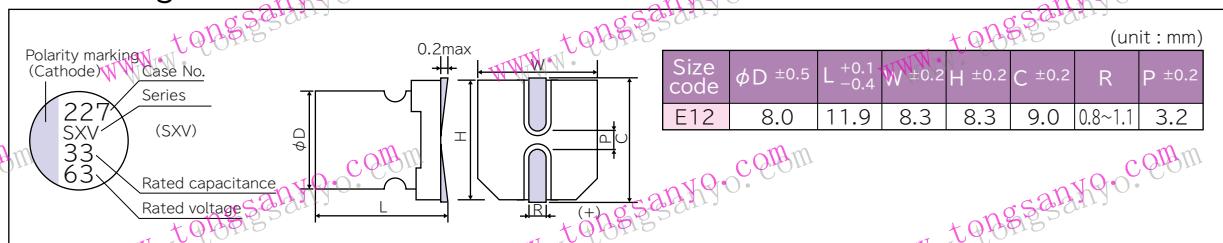
## Specifications

Items	Condition	Specifications	
Rated voltage (V)	—	63	100
Surge voltage (V)	Room temperature	72.5	115.0
Category temperature range (°C)	—	-55 to +105	
Capacitance tolerance (%)	120Hz/20°C	M: ±20	
Dissipation Factor (DF)	120Hz/20°C	Please see the attached characteristics list	
Leakage current※1	Rated voltage applied, after 2 minutes	Please see the attached characteristics list	
Equivalent series resistance (ESR)	100kHz to 300kHz/20°C	Please see the attached characteristics list	
Characteristics of impedance ratio at high temp. and low temp.	Based the value at 100kHz, +20°C	-55°C   Z/Z <sub>20°C</sub> +105°C   Z/Z <sub>20°C</sub>	0.75 to 1.25 0.75 to 1.25
Endurance	105°C, 5,000h, Rated voltage applied	△C/C	Within ±20% of the initial value
		DF	Within 1.5 times of the initial limit
		ESR	Within 1.5 times of the initial limit
		LC	Within the initial limit
Damp heat(Steady state)	60°C, 90 to 95RH, 1,000h, No applied voltage	△C/C	Within ±20% of the initial value
		DF	Within 1.5 times of the initial limit
		ESR	Within 1.5 times of the initial limit
		LC	Within the initial limit (after voltage processing)
Resistance to soldering heat※2	230°C X 75s	△C/C	Within ±10% of the initial value
		DF	Within 1.3 times of the initial limit
		ESR	Within 1.3 times of the initial limit
		LC	Within the initial limit (after voltage processing)

※1 In case of some problems for measured values, measure after applying rated voltage.

※2 Please refer to page 25 for reflow soldering conditions.

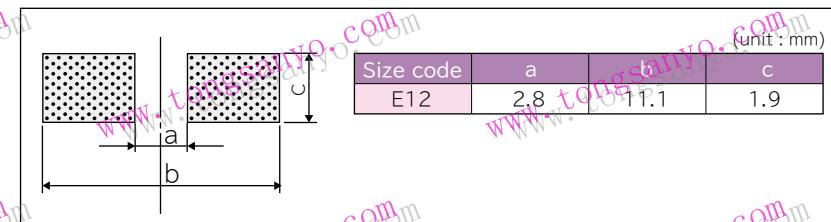
## Marking and dimensions



## Size list RV : Rated voltage

$\mu F$	RV	63	100
15		E12	
33			

## Recommended land pattern dimension of PWB



## SXV series characteristics list

Size code	Part number	Rated voltage (V)	Rated capacitance ( $\mu F$ )	ESR(mΩ) (max) 100kHz to 300kHz/20°C	Rated ripple current (mArms) at 105°C 100kHz (mArms) at 105°C	DF (% max)	Leakage current ( $\mu A$ ) (max) After 2 minutes
E12	63SXV33M	63	33	25	2950	12	104
	100SXV15M	100	15	40	2350	12	75

## Frequency coefficient for ripple current

Frequency	$120Hz \leq f < 1kHz$	$1kHz \leq f < 10kHz$	$10kHz \leq f < 100kHz$	$100kHz \leq f \leq 500kHz$
Coefficient	0.05	0.3	0.7	1