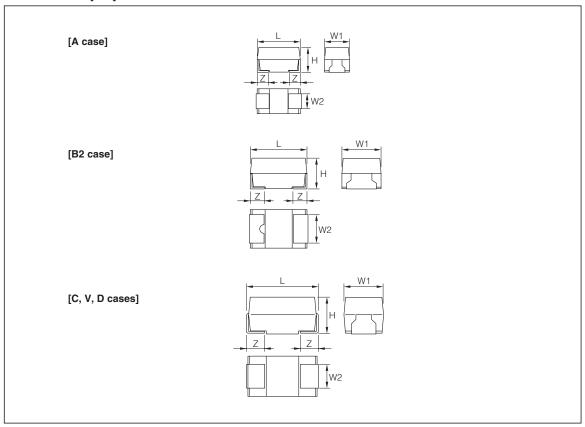
SV/Z Series

■ FEATURES

- Lead-free Type. RoHS Compliant.
- Low-ESR Type.
- For decoupling with CPU, for absorbing the noise.
- Same Dimension as E/SV series.

■ DIMENSIONS [mm]



(Unit: mm)

Case code	EIA code	L	W 1	W ²	Н	Z
А	3216	3.2±0.2	1.6±0.2	1.2±0.1	1.6±0.2	0.8±0.2
B2	3528	3.5±0.2	2.8±0.2	2.2±0.1	1.9±0.2	0.8±0.2
C2	_	6.0±0.2	3.2±0.2	2.2±0.1	1.4±0.1	1.3±0.2
С	6032	6.0±0.2	3.2±0.2	2.2±0.1	2.5±0.2	1.3±0.2
V	7343L	7.3±0.2	4.3±0.2	2.4±0.1	1.9±0.1	1.3±0.2
D	7343	7.3±0.2	4.3±0.2	2.4±0.1	2.8±0.2	1.3±0.2



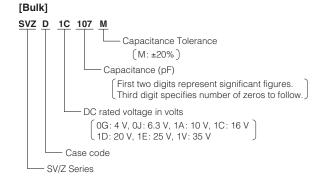
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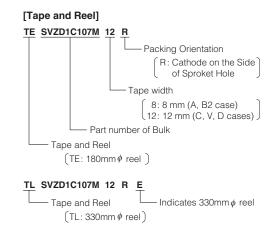
■ STANDARD C-V VALUE REFERENCE BY CASE CODE

	UR	4V	6.3V	10V	16V	20V	25V	35V
r.F		0G	0J	1A	1C	1D	1E	1V
6.8	685						С	С
							600	600
10	106		Α	B2				D
			800	600				300
15	156						D	D
							250	300
22	226		B2				D	
			800				200	
33	336					D		
						200		
47	476			C,D	D	D		
				300 , 140	150	150		
68	686		B2	B2	C, D			
			250	250	200, 150			
100	107		C, D	C2, C, V, D	D			
			150 , 150	150,125,150,100	100			
150	157		C, D	V,D				
			125 , 100	150 , 100				
220	227	D	V, D	D				
		100	150 , 100	100				
330	337	V, D	V,D					
		150 , 100	100 , 100					

Number : ESR $(m\Omega)$

■ PART NUMBER SYSTEM





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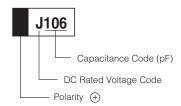


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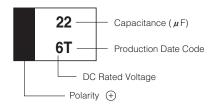
■ MARKINGS

The standard marking shows capacitance, DC rated voltage, and polarity.

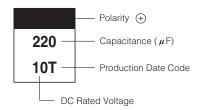
[A case] (ex. 10 μ F / 6.3 V)



[B2 case] (ex. 22 μ F / 6.3 V)



[C2, C, V, D case] (ex. 220 μ F / 10 V)



[DC Rated Voltage code]

Code	G	J	Α	С	D	E	٧
Rated Voltage	4 V	6.3 V	10 V	16 V	20 V	25 V	35V

[B2, C2, C, V, D cases production date code]

YM	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2005	Α	В	С	D	Е	F	G	Н	J	K	L	М
2006	N	Р	Q	R	S	Т	U	V	W	Х	Υ	Z
2007	а	b	С	d	е	f	g	h	j	k	- 1	m
2008	n	р	q	r	s	t	u	٧	W	х	у	z

Note: Production date code will resume beginning in 2009

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SV/Z Series

■ PERFORMANCE CHARACTERISTICS

Test Conditions : Conform to IEC 60384-1

ITEM				TEST CONDITION								
Operating tempera	ature	-55°C to +125°C							Derate voltage at 85°C at more			
Rated voltage (V.d	lc)	4V	6.3V	10V	16V	20V	,	25V	35V	at 85°C		
Derated voltage (V	/.dc)	2.5V	4V	6.3V	10V	13V	,	16V	22V	at 125°C		
Surge voltage (V.d	c)	5.2V	8V	13V	20V	26V	,	33V	46V	at 85°C		
Capacitance				6.8	8 μF to 330	μF						
Capacitance tolera	ance				±20% or ±10%	%				at 120 Hz		
DC Leakage Curre	ent (L.C)	0.01C • V(μA) or 0.5 μA, whichever is greater								Voltage: Rated voltage for 5min.		
Dissipation Factor				Refer	r to Standard F	Ratings				at 120 Hz		
Equivalent Series	Resistance			Refer	r to Standard F	Ratings				at 100 kHz		
		Capacita	ance change		DF(%)			L.C				
Surge voltage test		Refer to St	andard Rating	s	Lower than initial specification			Lower than specifica		Temperature: 85±2°C Applied voltage: Surge voltage Series resistance: 33 ohm Duration of surge: 30±5 sec Time between surge: 5.5min. Number of cycle: 1000		
	-55°C	Not to e	exceed -12%	Refer	Refer to Standard Ratings				_	Step 1: 25±2°C		
Characteristic at high and low temperature	+85°C	Not to e	xceed +12%	L	Lower than initial specification			0.1C • V(μA) which ever is		Step 2: -55.3°C Step 3: 25±2°C		
temperature	+125°C	Not to e	xceed +15%	Refer	Refer to Standard Ratings			25C • V(μA) which ever is		Step 4: 125.3°C		
Rapid change of temperature		Refer to St	andard Ratinç	s l	Lower than initial specification			Lower than specifica		Parts shall be temperature cycled over a temperature range of -55 to +125°C, five times continuously as follow. Step 1: -55.3°C, 30±3min. Step 2: room temp., 10 to 15min. Step 3: 125.3°C, 30±3min. Step 4: room temp, 10 to 15min.		
Resistance to Solo heat	dering	Refer to St	tandard Ratin	ıs L	Lower than initial specification			Lower than specification		solder dip : 260°C, 5sec solder reflow : 260°C, 10sec		
Damp heat		Refer to S	tandard Ratin	Lower	Lower than 1.25 times initial specification			Lower than		at 40°C at 90 to 95% RH 500 hour		
Endurance		Refer to S	tandard Ratin	ıs L	Lower than initial specification			Lower than 1.25 times initial specification		at 85°C : Rated voltage at 125°C : Derated voltage 2000 hour		
Failure Rate		λο = 1% / 1000 hour						at 85°C : Rated voltage at 125°C : Derated voltage 2000 hour				
Terminal Strength			Visual: There s	nall be no	evidence of n	nechanio	cal da	amage		Strength : 4.9N Time : 10±0.5sec. (two directions)		

Reference : Derated voltage (85 to $125^{\circ}C$)

$$[U_T] = [U_R] - \frac{[U_R] - [U_C]}{40} (T-85)$$

 $[U_T]$: Derated voltage at operating temperature

[U_R] : Rated voltage

[Uc] : Derated voltage at 125°C T : Ambient temperature

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■ STANDARD RATINGS

				Leakage Current (μA)			DF	(%)	Capacitance Change		
Rated Voltage (V)	Capacitance (μF)	Case Code	Part Number (Bulk)		DF (%)	ESR (Ω)	-55℃	+125℃	at Surge Voltage at Damp Heat at Resistance to Soldering Heat	at Endurance	
	220	D	SVZD0G227M	8.8	8	0.1	18	10	± 5%	±10%	
4	330	V	SVZV0G337M	13.2	12	0.15	18	14	±12%	±12%	
	330	D	SVZD0G337M	13.2	14	0.1	18	16	±12%	±12%	
	10	Α	SVZA0J106M	0.6	8	0.8	12	10	±12%	±12%	
	22	B2	SVZB20J226M	1.3	8	0.8	12	10	± 5%	±10%	
	68	B2	SVZB20J686M	4.2	10	0.25	18	12	±12%	±12%	
	100	С	SVZC0J107M	6.3	10	0.15	14	12	±12%	±12%	
	100	D	SVZD0J107M	6.3	8	0.15	12	10	± 5%	±10%	
6.3	150	С	SVZC0J157M	9.4	10	0.125	18	12	±12%	±12%	
	150	D	SVZD0J157M	9.4	8	0.1	18	10	± 5%	±10%	
	220	V	SVZV0J227M	13.8	12	0.15	18	14	±12%	±12%	
	220	D	SVZD0J227M	13.8	12	0.1	18	14	±12%	±12%	
	330	V	SVZV0J337M	20.7	14	0.1	26	16	±20%	±20%	
	330	D	SVZD0J337M	20.7	14	0.1	26	16	±12%	±12%	
	10	B2	SVZB21A106M	1	8	0.6	12	10	± 5%	±10%	
	47	С	SVZC1A476M	4.7	8	0.3	12	10	± 5%	±10%	
	47	D	SVZD1A476M	4.7	8	0.14	12	10	± 5%	±10%	
	68	B2	SVZB21A686M	6.8	12	0.25	14	14	±12%	±12%	
	100	C2	SVZC21A107M	10	10	0.15	18	14	±12%	±12%	
10	100	С	SVZC1A107M	10	10	0.125	18	12	±12%	±12%	
	100	V	SVZV1A107M	10	8	0.15	18	10	±12%	±12%	
	100	D	SVZD1A107M	10	8	0.1	18	10	± 5%	±10%	
	150	V	SVZV1A157M	15	8	0.15	14	10	±12%	±12%	
	150	D	SVZD1A157M	15	10	0.1	18	12	±12%	±12%	
	220	D	SVZD1A227M	22	12	0.1	22	14	±12%	±12%	
	47	D	SVZD1C476M	7.5	6	0.15	10	8	± 5%	±10%	
1	68	С	SVZC1C686M	10.8	6	0.2	16	10	±12%	±12%	
16	68	D	SVZD1C686M	10.8	6	0.15	10	8	± 5%	±10%	
	100	D	SVZD1C107M	16	8	0.1	18	10	±12%	±12%	
	33	D	SVZD1D336M	6.6	6	0.2	10	8	± 5%	±10%	
20	47	D	SVZD1D476M	9.4	6	0.15	10	8	± 5%	±10%	
	6.8	С	SVZC1E685M	1.7	6	0.6	10	8	± 5%	±10%	
25	15	D	SVZD1E156M	3.7	6	0.25	10	8	± 5%	±10%	
	22	D	SVZD1E226M	5.5	6	0.2	10	8	± 5%	±10%	
	6.8	С	SVZC1V685M	2.3	6	0.6	10	8	± 5%	±10%	
35	10	D	SVZD1V106M	3.5	6	0.3	10	8	± 5%	±10%	
	15	D	SVZD1V156M	5.2	6	0.3	10	8	± 5%	±10%	

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