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572D

RoHS



Vishay Sprague

Solid Tantalum Chip Capacitors TANTAMOUNT[®], Low Profile, Conformal Coated, Maximum CV



P case top P case bottom B and T cases Q, S, and A cases

Images not to scale

PERFORMANCE CHARACTERISTICS

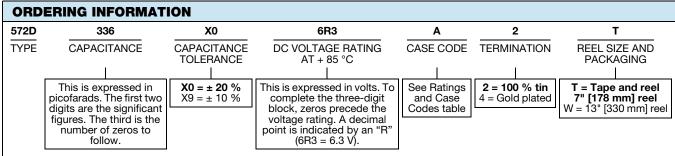
www.vishay.com/doc?40088

Operating Temperature: - 55 °C to + 125 °C (above 85 °C, voltage derating is required)

FEATURES

- P case offers single-sided lead (Pb)-free terminations
- Wraparound lead (Pb)-free terminations: Q, S, A, B, and T cases
- COMPLIANT 8 mm and 12 mm tape and reel packaging available per EIA-481 and reeling per IEC 60286-3 7" [178 mm] standard 13" [330 mm] available
- Mounting: Surface mount
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912

Capacitance Range: 2.2 µF to 220 µF Capacitance Tolerance: ± 10 %, ± 20 % standard Voltage Rating: 4 V_{DC} to 35 V_{DC}



Notes

Preferred tolerance and reel sizes are in bold

We reserve the right to supply higher voltage ratings and tighter capacitance tolerance capacitors in the same case size

DIMENSIO	NS in inches [r	nillimeters]					
* -{		↓ H		·	gle-side electrodes both electrodes at bottom side only)	W 	
CASE CODE	L (MAX.)	W	Н	Α	В	С	D (REF.)
Р	0.087 ± 0.012 [2.2 ± 0.3]	0.049 ± 0.012 [1.25 ± 0.3]	$\begin{array}{c} 0.039 \pm 0.008 \\ [1.0 \pm 0.2] \end{array}$	0.024 ± 0.012 [0.6 ± 0.3]	0.031 ± 0.012 [0.8 ± 0.3]	$\begin{array}{c} 0.031 \pm 0.012 \\ [0.8 \pm 0.3] \end{array}$	0.008 [0.2]
		H					
CASE CODE	L (MAX.)	W	Н	Α	В	С	D (REF.)
Q	0.126 ± 0.008 [3.2 ± 0.2]	0.063 ± 0.008 [1.6 ± 0.2]	$\begin{array}{c} 0.031 \pm 0.008 \\ [0.8 \pm 0.2] \end{array}$	$\begin{array}{c} 0.031 \pm 0.008 \\ [0.8 \pm 0.2] \end{array}$	0.047 ± 0.008 [1.2 ± 0.2]	$\begin{array}{c} 0.031 \pm 0.008 \\ [0.8 \pm 0.2] \end{array}$	0.008 [0.2]
S	0.126 ± 0.012 [3.2 ± 0.3]	0.063 ± 0.012 [1.6 ± 0.3]	$\begin{array}{c} 0.039 \pm 0.008 \\ [1.0 \pm 0.2] \end{array}$	$\begin{array}{c} 0.031 \pm 0.012 \\ [0.8 \pm 0.3] \end{array}$	0.047 ± 0.012 [1.2 ± 0.3]	$\begin{array}{c} 0.031 \pm 0.012 \\ [0.8 \pm 0.3] \end{array}$	0.008 [0.2]
А	0.126 ± 0.012 [3.2 ± 0.3]	0.067 ± 0.012 [1.7 ± 0.3]	0.051 ± 0.012 [1.3 ± 0.3]	0.031 ± 0.012 [0.8 ± 0.3]	0.047 ± 0.012 [1.2 ± 0.3]	0.031 ± 0.012 [0.8 ± 0.3]	0.008 [0.2]
В	$\begin{array}{c} 0.130 \pm 0.012 \\ [3.3 \pm 0.3] \end{array}$	0.106 ± 0.012 [2.7 ± 0.3]	0.067 ± 0.012 [1.7 ± 0.3]	0.031 ± 0.012 [0.8 ± 0.3]	0.047 ± 0.012 [1.2 ± 0.3]	0.043 ± 0.012 [1.1 ± 0.3]	0.008 [0.2]

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NSIONS in inches [millimeters]

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DIMENSIO	N In incries [r	niiimetersj					
Т	0.138 ± 0.008 [3.5 ± 0.2]	0.106 ± 0.008 [2.7 ± 0.2]	0.039 ± 0.008 [1.0 ± 0.2]	$\begin{array}{c} 0.031 \pm 0.008 \\ [0.8 \pm 0.2] \end{array}$	0.047 ± 0.008 [1.2 ± 0.2]	$\begin{array}{c} 0.043 \pm 0.008 \\ [1.1 \pm 0.2] \end{array}$	0.008 [0.2]
RATINGS /	AND CASE C	ODES					
μF	4 V	6.3 V	10	V	16 V	25 V	35 V
2.2						Q	А
4.7						A/S	
10				P	Р	А	
22					A/B/T		
33		A/P/Q/	S A/I	P/S			
47		Q/S	:	S			
68		S	E	З			
100		A/B/S/	Г В	/T			
220	B/S/T	В					

CAPACITANCE (µF)	CASE CODE	PART NUMBER	MAX. DCL AT + 25 °C (μΑ)	MAX. DF AT + 25 °C 120 Hz (%)	MAX. ESR AT + 25 °C 100 kHz (Ω)	MAX. RIPPLE 100 kHz I _{RMS} (A)
		4 V _{DC} AT+	85 °C, 2.7 V _{DC} AT	+ 125 °C		
220	В	572D227(1)004B(2)(3)	8.8	16	0.2	0.63
220	S	572D227X0004S(2)(3)	8.8	25	0.8	0.26
220	Т	572D227X0004T(2)(3)	8.8	26	0.6	0.37
		6.3 V _{DC} AT	+ 85 °C, 4 V _{DC} AT	+ 125 °C		
33	А	572D336(1)6R3A(2)(3)	2.1	8	0.8	0.29
33	Р	572D336X06R3P(2)(3)	2.1	14	1.5	0.13
33	Q	572D336(1)6R3Q(2)(3)	2.1	10	2.0	0.17
33	S	572D336(1)6R3S(2)(3)	2.1	10	1.4	0.24
47	Q	572D476X06R3Q(2)(3)	3.0	10	1.1	0.22
47	S	572D476(1)6R3S(2)(3)	3.0	10	0.9	0.25
68	S	572D686(1)6R3S(2)(3)	4.3	12	0.9	0.26
100	A	572D107(1)6R3A(2)(3)	6.3	14	0.8	0.36
100	В	572D107(1)6R3B(2)(3)	6.3	14	0.4	0.45
100	S	572D107X06R3S(2)(3)	6.3	20	1.0	0.24
100	Т	572D107(1)6R3T(2)(3)	6.3	14	0.6	0.36
220	В	572D227(1)6R3B(2)(3)	13.9	16	0.2	0.63
			+ 85 °C, 7 V _{DC} AT -	+ 125 °C		
10	Р	572D106(1)010P(2)(3)	1.0	8	3.0	0.09
33	А	572D336(1)010A(2)(3)	3.3	10	0.8	0.29
33	Р	572D336X0010P(2)(3)	3.3	25	4.0	0.08
33	S	572D336X0010S(2)(3)	3.3	10	1.1	0.23
47	S	572D476X0010S(2)(3)	4.7	14	1.1	0.23
68	В	572D686(1)010B(2)(3)	6.8	6	0.45	0.42
100	В	572D107(1)010B(2)(3)	10	14	0.4	0.45
100	Т	572D107X0010T(2)(3)	10	18	0.5	0.40
		16 V _{DC} AT -	+ 85 °C, 10 V _{DC} AT	+ 125 °C		
10	Р	572D106(1)016P(2)(3)	1.6	10	4.0	0.08
22	А	572D226(1)016A(2)(3)	3.5	8	1.4	0.22
22	В	572D226(1)016B(2)(3)	3.5	6	0.5	0.45
22	т	572D226(1)016T(2)(3)	3.5	8	1.1	0.27
		25 V _{DC} AT -	+ 85 °C, 17 V _{DC} AT	+ 125 °C		
2.2	Q	572D225(1)025Q(2)(3)	0.65	6	5.0	0.10
4.7	A	572D475(1)025A(2)(3)	1.2	8	2.8	0.15
4.7	S	572D475(1)025S(2)(3)	1.2	8	4.0	0.12

Note

Part number definitions:

(1) Tolerance: For 10 % tolerance, specify "X9"; for 20 % tolerance, change to "X0"
 (2) Termination: For 100 % tin specify "2", for gold plated specify "4"
 (3) Packaging code: For 7" reels specify "T", for 13" reel specify "W"

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STANDARD RATINGS						
CAPACITANCE (µF)	CASE CODE	PART NUMBER	MAX. DCL AT + 25 °C (μΑ)	MAX. DF AT + 25 °C 120 Hz (%)	MAX. ESR AT + 25 °C 100 kHz (Ω)	MAX. RIPPLE 100 kHz I _{RMS} (A)
10	А	572D106(1)025A(2)(3)	2.5	10	3.5	0.15
35 V _{DC} AT + 85 °C, 23 V _{DC} AT + 125 °C						
2.2	А	572D225(1)035A(2)(3)	0.8	6	3.0	0.12

Note ٠

Part number definitions:

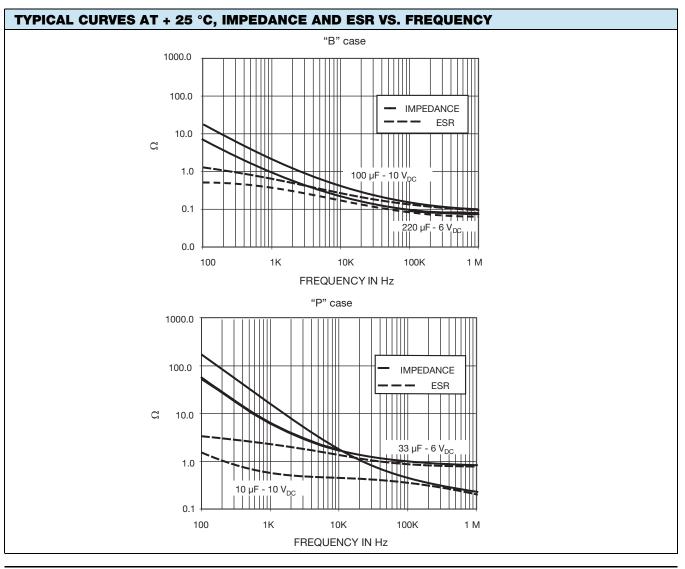
(1) Tolerance: For 10 % tolerance, specify "X9"; for 20 % tolerance, change to "X0"
 (2) Termination: For 100 % tin specify "2", for gold plated specify "4"
 (3) Packaging code: For 7" reels specify "T", for 13" reel specify "W"

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RECOMMENDED VOLTAGE DERATING GUIDELIN	ES (for temperatures below + 85 °C)				
STANDARD CONDITIONS. FOR EXAMPLE: OUTPUT FILTERS	STANDARD CONDITIONS. FOR EXAMPLE: OUTPUT FILTERS				
Capacitor Voltage Rating	Operating Voltage				
4.0	2.5				
6.3	3.6				
10	6.0				
16	10				
25	15				
35	24				
SEVERE CONDITIONS. FOR EXAMPLE: INPUT FILTERS					
Capacitor Voltage Rating	Operating Voltage				
4.0	2.5				
6.3	3.3				
10	5.0				
16	8.0				
25	12				
35	15				



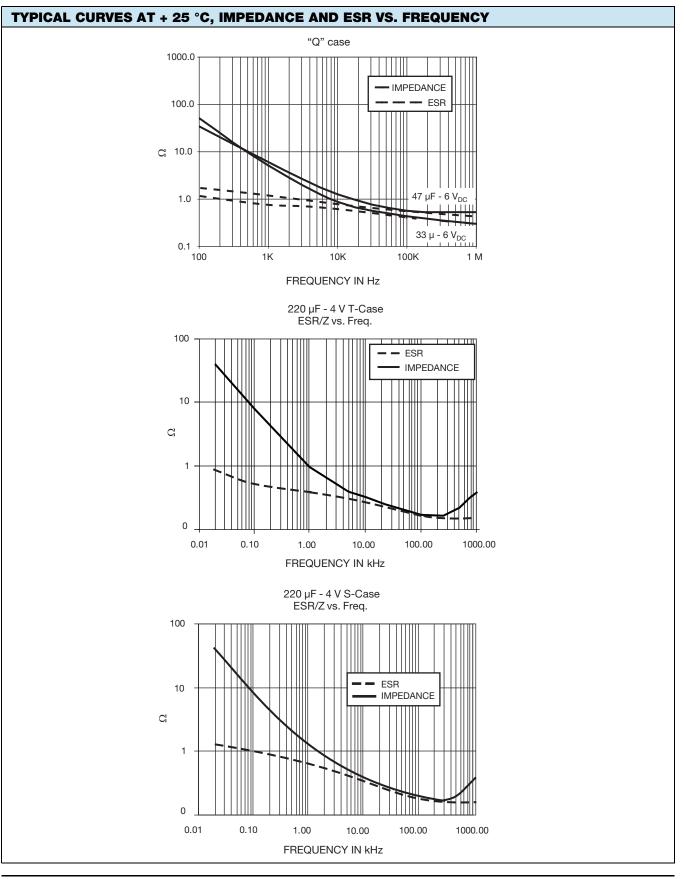
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4 For technical questions, contact: <u>tantalum@vishay.com</u> Document Number: 40064

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POWER DISSIPATION					
CASE CODE	MAXIMUM PERMISSIBLE POWER DISSIPATION AT + 25 °C (W) IN FREE AIR				
Р	0.025				
Q	0.055				
S	0.060				
A	0.065				
B/T	0.080				

STANDARD PACKAGING QUANTITY					
CASE CODE	UNITS PER REEL				
CASE CODE	7" REEL	13" REEL			
A	2500	10 000			
В	2000	10 000			
Р	3000	10 000			
Q	2500	10 000			
S	2500	10 000			
Т	1500	8000			

PRODUCT INFORMATION	
Conformal Coated Guide Recommended Pad Layouts Carrier Tape Information Reflow Profiles 	www.vishay.com/doc?40150
Moisture Sensitivity	www.vishay.com/doc?40135
SELECTOR GUIDES	
Solid Tantalum Selector Guide	www.vishay.com/doc?49053
Solid Tantalum Chip Capacitors	www.vishay.com/doc?40091
FAQ	
Frequently Asked Questions	www.vishay.com/doc?40110



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