

Solid Tantalum Surface Mount Capacitors TANTAMOUNT[®], Molded Case, DSCC Approved, Built-In Fuse

FEATURES

- Terminations: Tin/lead solder plated
- Molded package available in 3 case codes
- Meets MIL-PRF-55365 and EIA535BAAC mechanical and performance requirements
- Compliant terminations
- Electrically activated internal fuse



Inspection: MIL-PRF-55365, Group A Inspection (exponential distribution); Subgroups 1 and 3 with voltage aging a minimum of 10 hours at 85 °C and 1.32 times rated voltage.

100 % Surge current tested

- Temperature: 25 °C
- Applied voltage: Rated voltage
- Test cycles: 4
- Charge and discharge cycles: 4 s maximum
- Total DC resistance: 1.2 Ω maximum

PERFORMANCE/ELECTRICAL CHARACTERISTICS

Operating Temperature: - 55 °C to + 125 °C

Capacitance Range: 0.47 μF to 470 μF

Capacitance Tolerance: ± 20 %

Voltage Rating: 4 VDC to 50 VDC

ORDERING INFORMATION

04053 DRAWING NUMBER	001 DASH NUMBER	T PACKAGING
		T = 7" (178 mm) reel W = 13" (330 mm) reel

DIMENSIONS in inches [millimeters]

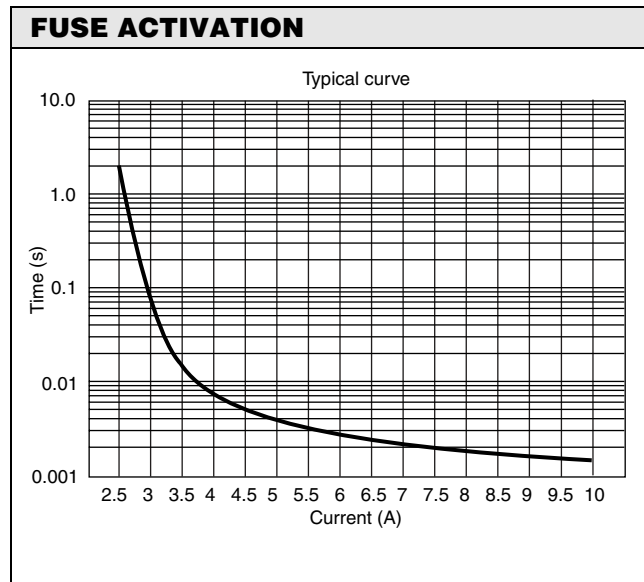
CASE CODE	EIA SIZE	L	W	H	P	T _w	T _H MIN.
C	6032-28	0.236 ± 0.012 [6.0 ± 0.30]	0.126 ± 0.012 [3.2 ± 0.30]	0.098 ± 0.012 [2.5 ± 0.30]	0.051 ± 0.012 [1.3 ± 0.30]	0.087 ± 0.004 [2.2 ± 0.10]	0.039 [1.0]
D	7343-31	0.287 ± 0.012 [7.3 ± 0.30]	0.170 ± 0.012 [4.3 ± 0.30]	0.110 ± 0.012 [2.8 ± 0.30]	0.051 ± 0.012 [1.3 ± 0.30]	0.095 ± 0.004 [2.4 ± 0.10]	0.039 [1.0]
E	7343-43	0.287 ± 0.012 [7.3 ± 0.30]	0.170 ± 0.012 [4.3 ± 0.30]	0.158 ± 0.012 [4.0 ± 0.30]	0.051 ± 0.012 [1.3 ± 0.30]	0.095 ± 0.004 [2.4 ± 0.10]	0.039 [1.0]

RATINGS AND CASE CODES								
μF	4 V	6.3 V	10 V	16 V	20 V	25 V	35 V	50 V
0.47								C
0.68								C
1.0								C
1.5							C	C
2.2						C	C	D
3.3						C	C	D
4.7					C	C	D	
6.8				C	C	C	D	
10			C	C	C	C/D	E	
15		C	C	C	D	D	E	
22		C	C	C/D	D	D/E	E	
33		C	C/D	D	E			
47		C	C/D	D/E	E			
68	C	C/D	D/E					
100	C	D/E	D	E				
150	D	D	D/E					
220	D	D/E	E					
330	D/E	E						
470	E							

MARKING

“C, D, E” Case Sizes

Marking:
The capacitor shall be marked with an anode (+) polarity band, capacitance (in microfarads) and the rated DC working voltage 85 °C. The capacitance voltage will be separated by the letter “F” indicating a fused capacitor. The Vishay Sprague[®] trademark is included. Capacitors rated at 6.3 V are marked 6 V. A manufacturing date code is marked on all capacitors.





Solid Tantalum Surface Mount Capacitors
TANTAMOUNT[®], Molded Case, DSCC Approved, Built-In Fuse

RATINGS AND PART NUMBER REFERENCE						
CAPACITANCE (μF)	CASE CODE	PART NUMBER	MAX. DC LEAKAGE AT + 25 °C (μA)	MAX. DF AT + 25 °C 120 Hz (%)	MAX. ESR AT + 25 °C 100 kHz (Ω)	
4 VDC AT + 85 °C, 2.7 VDC AT + 125 °C						
68	C	04053-001(1)	2.7	6	1.600	
100	C	04053-002(1)	4.0	8	1.200	
150	D	04053-003(1)	6.0	8	0.800	
220	D	04053-004(1)	8.8	8	0.700	
330	D	04053-005(1)	13.2	8	0.700	
330	E	04053-006(1)	13.2	8	0.700	
470	E	04053-007(1)	18.8	8	0.500	
6.3 VDC AT + 85 °C, 4 VDC AT + 125 °C						
15	C	04053-011(1)	0.9	6	2.000	
22	C	04053-013(1)	1.4	6	2.000	
33	C	04053-014(1)	2.0	6	2.000	
47	C	04053-016(1)	2.9	6	1.600	
47	D	04053-015(1)	2.9	6	1.000	
68	C	04053-018(1)	4.1	6	1.200	
68	D	04053-017(1)	4.1	6	1.000	
100	D	04053-020(1)	6.0	8	0.800	
100	E	04053-019(1)	6.0	8	0.900	
150	D	04053-021(1)	9.0	8	0.700	
220	D	04053-022(1)	13.2	8	0.700	
220	E	04053-023(1)	13.2	8	0.700	
330	E	04053-024(1)	19.8	8	0.500	
10 VDC AT + 85 °C, 7 VDC AT + 125 °C						
10	C	04053-028(1)	1.0	6	2.000	
15	C	04053-030(1)	1.5	6	2.000	
22	C	04053-031(1)	2.2	6	2.000	
33	C	04053-033(1)	3.3	6	1.600	
33	D	04053-032(1)	3.3	6	1.000	
47	C	04053-035(1)	4.7	6	1.200	
47	D	04053-034(1)	4.7	6	1.000	
68	D	04053-037(1)	6.8	6	0.800	
68	E	04053-036(1)	6.8	6	0.900	
100	D	04053-038(1)	10.0	8	0.700	
150	D	04053-040(1)	15.0	8	0.700	
150	E	04053-039(1)	15.0	8	0.700	
220	E	04053-041(1)	22.0	8	0.500	
16 VDC AT + 85 °C, 10 VDC AT + 125 °C						
6.8	C	04053-045(1)	1.1	6	2.000	
10	C	04053-047(1)	1.6	6	2.000	
15	C	04053-048(1)	2.4	6	2.000	
22	C	04053-050(1)	3.5	6	1.600	
22	D	04053-049(1)	3.5	6	1.000	
33	D	04053-051(1)	5.3	6	1.000	
47	D	04053-053(1)	7.5	6	0.800	
47	E	04053-052(1)	7.5	6	0.900	
100	E	04053-054(1)	16.0	8	0.700	

Note

(1) Packaging Codes: T, W

RATINGS AND PART NUMBER REFERENCE					
CAPACITANCE (μ F)	CASE CODE	PART NUMBER	MAX. DC LEAKAGE AT + 25 °C (μ A)	MAX. DF AT + 25 °C 120 Hz (%)	MAX. ESR AT + 25 °C 100 kHz (Ω)
20 VDC AT + 85 °C, 13 VDC AT + 125 °C					
4.7	C	04053-058(1)	1.0	6	2.000
6.8	C	04053-059(1)	1.4	6	2.000
10	C	04053-060(1)	2.0	6	2.000
15	D	04053-061(1)	3.0	6	1.000
22	D	04053-062(1)	4.4	6	1.000
33	E	04053-063(1)	6.6	6	0.900
47	E	04053-064(1)	9.4	6	0.300
25 VDC AT + 85 °C, 17 VDC AT + 125 °C					
2.2	C	04053-068(1)	0.6	6	3.500
3.3	C	04053-069(1)	0.9	6	2.500
4.7	C	04053-070(1)	1.2	6	2.500
6.8	C	04053-071(1)	1.7	6	2.000
10	C	04053-072(1)	2.5	6	0.600
10	D	04053-073(1)	2.5	6	1.200
15	D	04053-074(1)	3.8	6	1.000
22	D	04053-076(1)	5.5	6	0.800
22	E	04053-075(1)	5.5	6	0.900
35 VDC AT + 85 °C, 23 VDC AT + 125 °C					
1.5	C	04053-080(1)	0.5	6	4.500
2.2	C	04053-081(1)	0.8	6	3.500
3.3	C	04053-082(1)	1.2	6	2.500
4.7	D	04053-083(1)	1.7	6	1.500
6.8	D	04053-084(1)	2.4	6	1.300
10	E	04053-085(1)	3.5	6	1.000
15	E	04053-086(1)	5.3	6	0.900
22	E	04053-087(1)	7.7	6	0.300
50 VDC AT + 85 °C, 33 VDC AT + 125 °C					
0.47	C	04053-091(1)	0.5	4	8.000
0.68	C	04053-092(1)	0.5	4	7.000
1	C	04053-093(1)	0.5	4	5.500
1.5	C	04053-094(1)	0.8	6	5.000
2.2	D	04053-095(1)	1.1	6	2.500
3.3	D	04053-096(1)	1.7	6	2.000

Note

(1) Packaging Codes: T, W



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