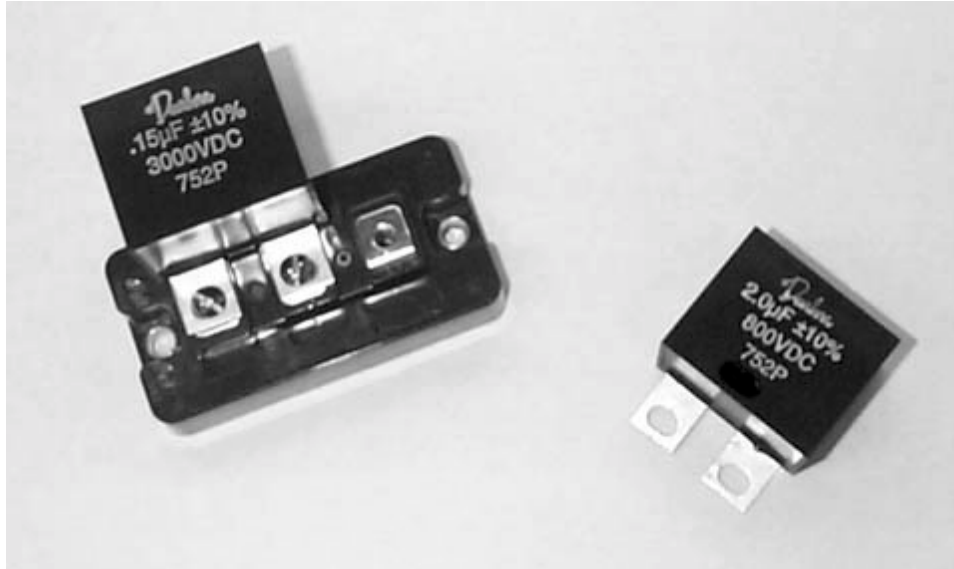


752P IGBT SNUBBER CAPACITORS



Superior performance in a small size.

Want to simplify your IGBT system design? Look no further than the Dearborn Electronics' 752P IGBT snubber capacitor series. The superior performance characteristics of the polypropylene film dielectric make the 752P ideal for motor applications, controllers, and high power conversion and conditioning system applications. Use these superior characteristics to your advantage:

Low ESL and ESR

Voltage Ratings to 3000VDC / 920VRMS

Ripple Current Greater Than 20 ARMS @ 85°C

Across the bus 23 – 28 mm terminal spacing

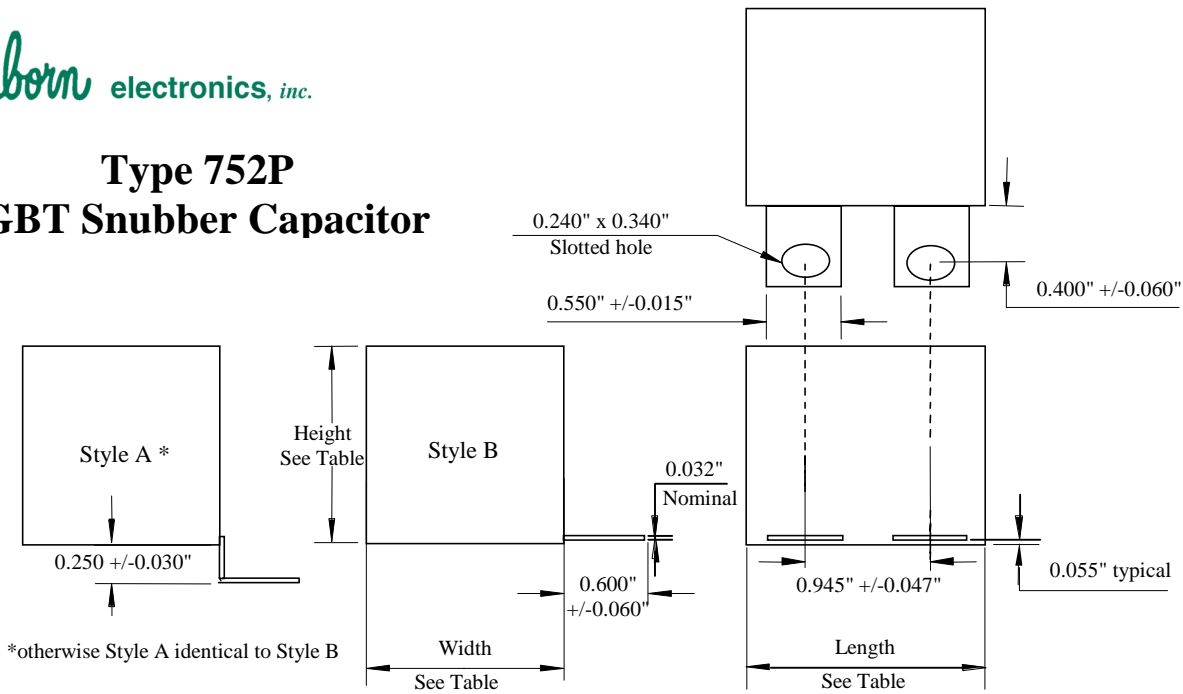
105°C Operating Temperature

dv/dt Capabilities to 3300V/µs

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Type 752P IGBT Snubber Capacitor



Consult factory for other terminal configurations and/or spacing

Physical Characteristics –

Construction:

Non-inductive wound metalized polypropylene

Case:

Flame Retardant molded plastic case and epoxy fill

Case	LENGTH	WIDTH	HEIGHT
1	1.65"	1.25"	1.25"
2	1.77"	1.46"	1.46"

Terminals:

Tinned Copper Tabs

Marking:

Dearborn trademark, type or catalog number, capacitance, tolerance and voltage

Electrical Specifications –

(See Standard Ratings Table)

Capacitance Range:

0.10 μ F to 2.5 μ F

Capacitance Tolerance:

\pm 20%, \pm 10%, \pm 5%

Voltage Range:

800VDC to 3000VDC

460VRMS to 920VRMS

Voltage Derating:

At 105°C, 70% of the 85°C rating

Operating Temperature:

-55°C to 105°C for DC operation

-55°C to 85°C for AC operation

Dissipation Factor:

0.10% maximum

Equivalent Series Inductance:

< 26nH

Equivalent Series Resistance:

See Standard Ratings Table

DC Voltage Test:

150% of rated voltage for 2 minutes

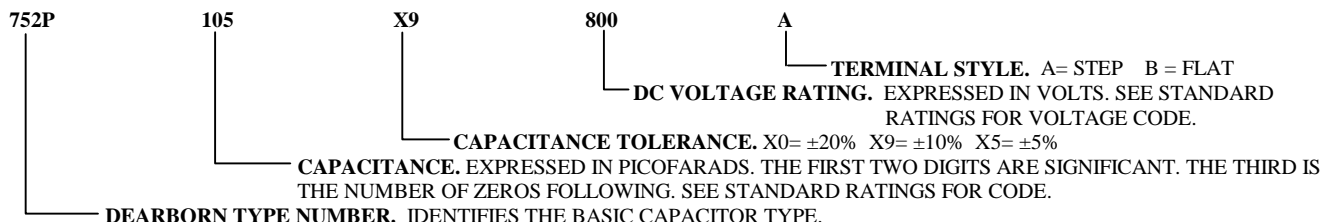
Insulation Resistance:

Measure at 500VDC after a 2 minute charge

At 25°C, 175,000 Megohm-Microfarads,
need not exceed 350,000 Megohms

At 85°C, 10,000 Megohm-Microfarads,
need not exceed 20,000 Megohms

Catalog Numbering System



752P STANDARD RATINGS TABLE

Capacitance		Case Size	Typical ESR (mΩ @ 100kHz)	Maximum Ripple Current at 100kHz (Amps)		I peak (Amps)	dv/dt (V/μs)
μF	Code			50°C	85°C		
800 VOLTS DC/460 VRMS*(VOLTAGE CODE 800)							
0.39	394	1	9.9	16.2	13.0	300	785
0.47	474	1	8.4	17.8	14.2	370	785
0.56	564	1	8.3	19.4	15.5	380	675
0.68	684	1	9.8	21.5	17.2	385	565
0.75	754	1	9.0	22.5	18.0	425	565
0.82	824	1	8.3	23.6	18.9	460	565
1.0	105	1	6.9	26.0	20.8	565	510
1.2	125	2	6.7	26.0	20.8	595	435
1.4	145	2	5.9	26.0	20.8	695	425
1.5	155	2	5.5	26.0	20.8	745	425
1.8	185	2	6.5	26.0	20.8	720	400
2.0	205	2	6.0	26.0	20.8	800	345
2.2	225	2	5.5	26.0	20.8	880	335
2.5	255	2	4.9	26.0	20.8	1000	335
1000 VOLTS DC/460 VRMS*(VOLTAGE CODE 1K0)							
0.33	334	1	9.6	14.9	11.9	269	895
0.39	394	1	9.9	16.2	13.0	300	785
0.47	474	1	8.4	17.8	14.2	370	785
0.56	564	1	8.3	19.4	15.5	380	675
0.68	684	1	9.8	21.5	17.2	385	565
0.75	754	1	9.0	22.5	18.0	425	565
0.82	824	1	8.3	23.6	18.9	460	565
1.0	105	1	6.9	26.0	20.8	565	510
1.2	125	2	6.7	26.0	20.8	595	435
1.4	145	2	5.9	26.0	20.8	695	425
1.5	155	2	5.5	26.0	20.8	745	425
1200 VOLTS DC/460 VRMS*(VOLTAGE CODE 1K2)							
0.27	274	1	11.6	13.5	10.8	240	895
0.33	334	1	9.6	14.9	11.9	269	895
0.39	394	1	9.9	16.2	13.0	300	785
0.47	474	1	8.4	17.8	14.2	370	785
0.56	564	1	8.3	19.4	15.5	380	675
0.68	684	1	9.8	21.5	17.2	385	565
0.75	754	1	9.0	22.5	18.0	425	565
0.82	824	1	8.3	23.6	18.9	460	565
1.0	105	1	6.9	26.0	20.8	565	510
1.2	125	2	6.7	26.0	20.8	595	435
1.4	145	2	5.9	26.0	20.8	695	425
1.5	155	2	5.5	26.0	20.8	745	425
1600 VOLTS DC/920 VRMS* (VOLTAGE CODE 1K6)							
0.10	104	1	16.8	8.2	6.6	308	3080
0.12	124	1	14.1	9.0	7.2	370	2945
0.15	154	1	9.8	10.1	8.1	460	2790
0.18	184	1	9.7	11.0	8.8	555	2635
0.22	224	1	9.4	13.0	10.4	585	2340
0.27	274	2	7.8	14.4	11.5	600	2040
0.33	334	2	8.0	15.9	12.7	660	1845
0.39	394	2	6.9	17.4	13.9	860	1750
0.47	474	2	7.6	19.1	15.2	860	1565
0.56	564	2	6.5	21.9	17.5	1030	1475

Additional cap values, and voltages are available upon request.

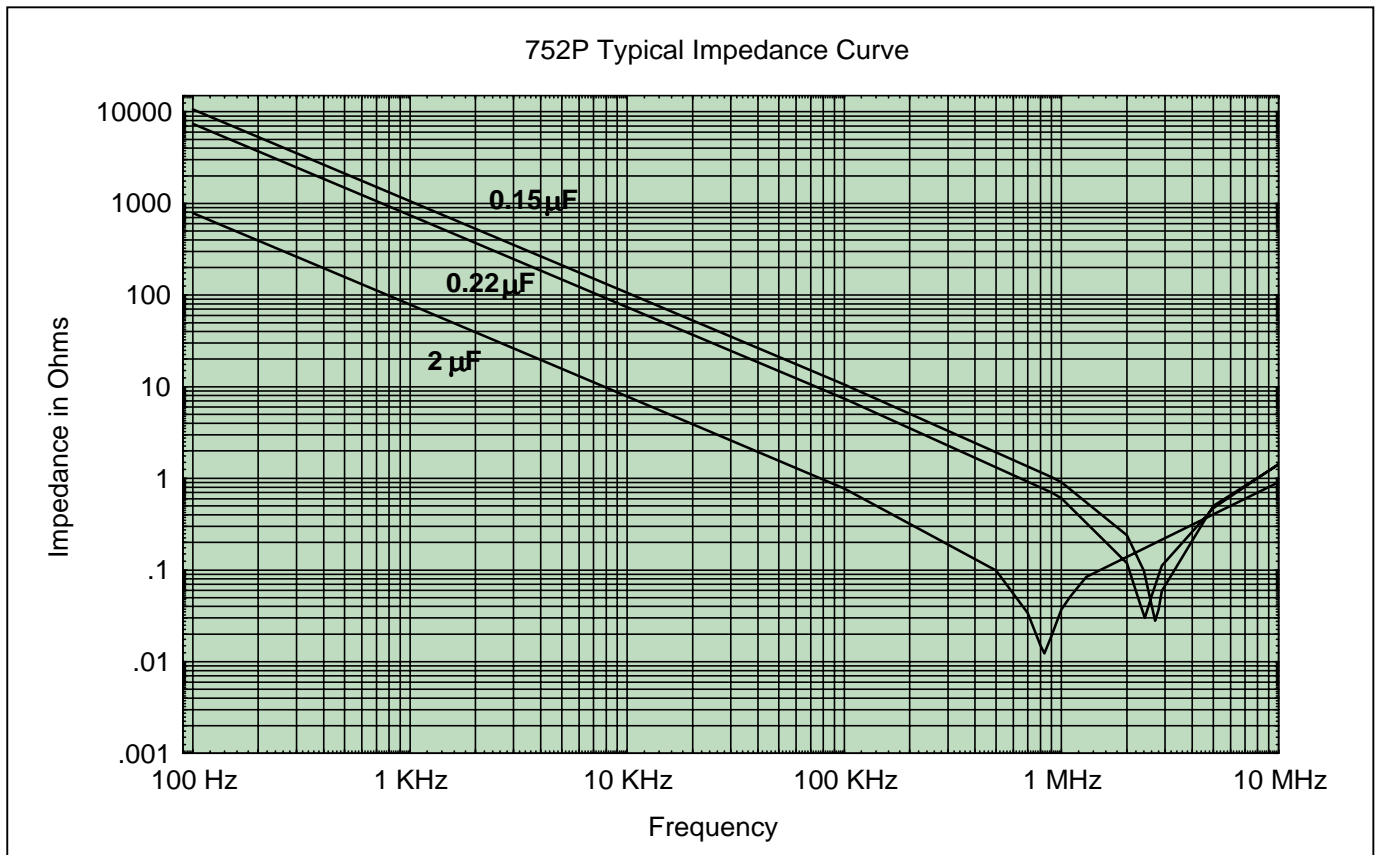
*AC voltage rating is at 400Hz.

752P STANDARD RATINGS TABLE

Capacitance		Case Size	Typical ESR (mΩ @ 100kHz)	Maximum Ripple Current at 100kHz (Amps)		I peak (Amps)	dv/dt (V/μs)
μF	Code			50°C	85°C		
2000 VOLTS DC/920 VRMS*(VOLTAGE CODE 2K0)							
0.10	104	1	16.8	8.2	6.6	308	3080
0.12	124	1	14.1	9.0	7.2	370	2945
0.15	154	1	9.8	10.1	8.1	460	2790
0.18	184	1	9.7	11.0	8.8	555	2635
0.22	224	1	9.4	13.0	10.4	585	2340
0.27	274	2	7.8	14.4	11.5	600	2040
0.33	334	2	8.2	15.9	12.7	660	1845
0.39	394	2	6.9	17.4	13.9	860	1750
2400 VOLTS DC/920 VRMS*(VOLTAGE CODE 2K4)							
0.10	104	1	16.8	8.2	6.6	308	3080
0.12	124	1	14.1	9.0	7.2	370	2945
0.15	154	1	9.8	10.1	8.1	460	2790
0.18	184	1	9.7	11.0	8.8	555	2635
0.22	224	1	9.4	13.0	10.4	585	2340
0.27	274	2	7.8	14.4	11.5	600	2040
0.33	334	2	8.0	15.9	12.7	660	1845
3000 VOLTS DC/920 VRMS*(VOLTAGE CODE 3K0)							
0.10	104	1	14.1	8.2	6.6	350	3315
0.12	124	1	11.9	9.0	7.2	420	3160
0.15	154	2	11.3	11.3	9.0	440	2570
0.18	184	2	9.5	12.4	9.9	525	2475
0.22	224	2	7.9	13.7	11.0	640	2385

Additional cap values, and voltages are available upon request.

* AC voltage rating is at 400Hz.



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