

Type SCD IGBT Snubber Capacitor Modules

Style SCD

Direct Mount



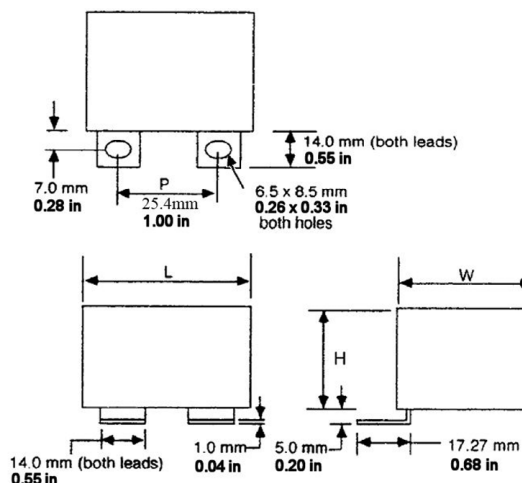
Applications

Style SCD offers protection against voltage transients in low to medium current IGBT applications where high dV/dt is encountered. Connect these capacitors from C1 to E2 on a dual IGBT module or from P to N on a six-pack module to eliminate severe voltage transients. Parts ending with Z25 fit IGBTs with 23mm, 25mm and 28mm lead spacing. If you have a preferred lead spacing, please specify.

Highlights

- High peak & RMS current capability
- Mount directly to the IGBT module
- Low inductance <20nH
- Low loss polypropylene dielectric
- Self healing
- Flame resistant case and resin, meets UL94V0
- Other terminal spacing and capacitance values available. We can build to your specs!
- 85°C ambient temperature

Ratings



Catalog Part Number	Cap. (μF)	Vac 60 Hz	dV/dt (V/μs)	l _{pk} (A)	ESR mΩ	Arms 55 °C 100 kHz	W (in)	W (mm)	L (in)	L (mm)	H (in)	H (mm)
600 Vdc												
SCD474K601A3Z25	0.47	330	250	118	9	9.2	0.97	24.6	1.85	47.0	0.95	24.1
SCD684K601A3Z25	0.68	330	250	170	7	11.5	1.14	29.0	1.85	47.0	1.05	26.7
SCD105K601A3Z25	1.00	330	200	200	5	14.0	1.14	29.0	1.85	47.0	1.05	26.7
SCD155K601A3Z25	1.50	300	150	225	4	17.1	1.14	29.0	1.85	47.0	1.05	26.7
SCD205K601A3Z25	2.00	300	150	300	3	20.7	1.27	32.3	1.78	45.1	1.40	35.6
SCD335K601A3Z25	3.30	400	300	825	5	35.0	1.50	38.1	2.05	52.1	1.50	38.1
SCD475K601A3Z25	4.70	400	250	1175	4	46.2	1.83	46.4	2.23	56.5	1.98	50.2
1000 Vdc												
SCD474K102A3Z25	0.47	330	250	118	11	9.2	0.97	24.6	1.85	47.0	0.95	24.1
SCD474K102D3Z25	0.47	500	700	329	8	12.1	1.14	29.0	1.85	47.0	1.05	26.7
SCD684K102A3Z25	0.68	330	200	136	7	11.5	1.14	29.0	1.85	47.0	1.05	26.7
SCD684K102D3Z25	0.68	500	500	340	7	14.4	1.14	29.0	1.85	47.0	1.05	26.7
SCD105K102A3Z25	1.00	330	200	200	4	14.0	1.14	29.0	1.85	47.0	1.05	26.7
SCD105K102D3Z25	1.00	500	400	400	5	17.5	1.14	29.0	1.85	47.0	1.05	26.7
SCD155K102A3Z25	1.50	300	160	240	4	17.9	1.27	32.3	1.78	45.1	1.40	35.6
SCD155K102D3Z25	1.50	500	400	600	3	22.4	1.37	34.8	1.78	45.1	1.40	35.6
SCD205K102A3Z25	2.00	300	160	320	4	20.9	1.37	34.8	1.78	45.1	1.40	35.6
SCD205K102D3Z25	2.00	500	400	800	5	26.2	1.50	38.1	2.05	52.1	1.50	38.1

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Catalog	Cap.	Vac	dV/dt		ESR	Arms		W		L		H
Part Number	(μF)	60 Hz	(V/μs)	lpk(A)	mΩ	55 °C 100 kHz	(in)	(mm)	(in)	(mm)	(in)	(mm)
1200 Vdc												
SCD224K122A3Z25	0.22	580	650	143	19	7.9	0.97	24.6	1.85	47.0	0.95	24.1
SCD334K122A3Z25	0.33	580	650	215	13	10.0	1.14	29.0	1.85	47.0	1.05	26.7
SCD474K122A3Z25	0.47	580	500	235	10	12.0	1.14	29.0	1.85	47.0	1.05	26.7
SCD684K122A3Z25	0.68	580	500	340	7	15.1	1.27	32.3	1.78	45.1	1.40	35.6
SCD105K122A3Z25	1.00	580	500	500	5	18.5	1.37	34.8	1.78	45.1	1.40	35.6
SCD155K122A3Z25	1.50	580	400	600	4	23.9	1.50	38.1	2.05	52.1	1.50	38.1
SCD205K122A3Z25	2.00	580	400	800	4	30.1	1.83	46.4	2.23	56.5	1.98	50.2
SCD305K122C3Z25	3.00	580	400	1200	5	39.7	3.00	76.2	2.48	62.9	1.50	38.1
1600 Vdc												
SCD224K162A3Z25	0.22	630	650	143	19	7.9	0.97	24.6	1.85	47.0	0.95	24.1
SCD334K162A3Z25	0.33	630	650	215	12	10.0	1.14	29.0	1.85	21.6	1.05	26.7
SCD474K162A3Z25	0.47	630	650	306	10	12.6	1.27	32.3	1.78	45.1	1.40	35.6
SCD684K162A3Z25	0.68	630	650	442	7	15.3	1.37	34.8	1.78	45.1	1.40	35.6
SCD105K162A3Z25	1.00	630	500	500	6	19.5	1.50	38.1	2.05	52.1	1.50	38.1
SCD155K162A3Z25	1.50	630	400	600	5	25.6	1.60	40.6	2.70	68.6	1.50	38.1
SCD205K162A3Z25	2.00	630	400	800	5	30.6	1.75	44.5	2.63	66.7	1.83	46.4
2000 Vdc												
SCD224K202A3Z25	0.22	630	800	176	19	8.2	0.97	24.6	1.85	47.0	0.95	24.1
SCD334K202A3Z25	0.33	630	800	264	13	10.5	1.27	32.3	1.78	45.1	1.40	35.6
SCD474K202A3Z25	0.47	630	600	282	10	13.0	1.35	34.3	2.20	55.9	1.20	30.5
SCD684K202A3Z25	0.68	630	600	408	8	16.1	1.50	38.1	2.05	52.1	1.50	38.1
SCD105K202A3Z25	1.00	630	600	600	6	21.3	1.83	46.4	2.23	56.5	1.98	50.2

Note: Modify Catalog Part Number to specify lead spacing. Example: 44mm spacing would use -44 instead of Z25. Other capacitance values and lead orientations are available. Contact us

Mounting Across the Bus? CDE Will Accommodate Your Bus Structure

