

# Type SCD, IGBT Snubber Capacitor Modules

## Style SCD

Direct Mount

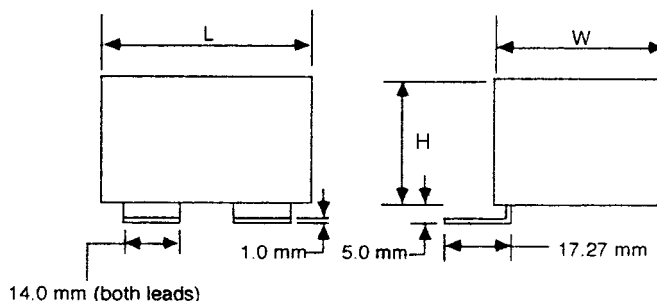
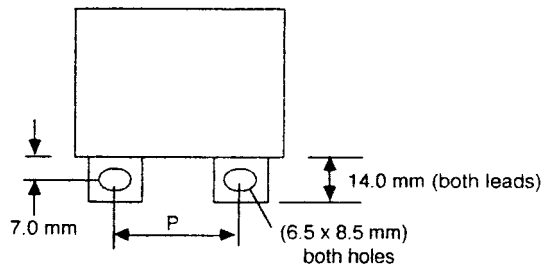


## Applications

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



PART NUMBER	CAP μF	Vdc	Vac	dV/dt (V/μs)	Ipk(A)	ESR mΩ	Arms (55°C)	DIMENSIONS (in)		
								W	L	H
SCD474K601A3Z25	0.47	600	330	250	118	9	9.2	0.970	1.850	0.950
SCD684K601A3Z25	0.68	600	330	250	170	7	11.5	1.140	1.850	1.050
SCD105K601A3Z25	1.0	600	330	200	200	5	14.0	1.140	1.850	1.050
SCD155K601A3Z25	1.5	600	300	150	225	4	17.1	1.140	1.850	1.050
SCD205K601A3Z25	2.0	600	300	150	300	3	20.7	1.270	1.775	1.400
SCD335K601A3Z25	3.3	600	400	300	825	5	35.0	1.500	2.050	1.500
SCD475K601A3Z25	4.7	600	400	250	1175	4	46.2	1.825	2.225	1.975
SCD474K102A3Z25	0.47	1000	330	250	118	11	9.2	0.970	1.850	0.950
SCD474K102D3Z25	0.47	1000	500	700	329	8	12.1	1.140	1.850	1.050
SCD684K102A3Z25	0.68	1000	330	200	136	7	11.5	1.140	1.850	1.050
SCD684K102D3Z25	0.68	1000	500	500	340	7	14.4	1.140	1.850	1.050
SCD105K102A3Z25	1.0	1000	330	200	200	4	14.0	1.140	1.850	1.050
SCD105K102D3Z25	1.0	1000	500	400	400	5	17.5	1.140	1.850	1.050
SCD155K102A3Z25	1.5	1000	300	160	240	4	17.9	1.270	1.775	1.400
SCD155K102D3Z25	1.5	1000	500	400	600	3	22.4	1.370	1.775	1.400
SCD205K102A3Z25	2.0	1000	300	160	320	4	20.9	1.370	1.775	1.400
SCD205K102D3Z25	2.0	1000	500	400	800	5	26.2	1.500	2.050	1.500

# Type SCD, IGBT Snubber Capacitor Modules

PART NUMBER	CAP $\mu\text{F}$	Vdc	Vac	dV/dt (V/ $\mu\text{s}$ )	Ipk(A)	ESR m $\Omega$	Arms (55°C)	DIMENSIONS (in)		
								W	L	H
SCD224K122A3Z25	0.22	1200	580	650	143	19	7.9	0.970	1.850	0.950
SCD334K122A3Z25	0.33	1200	580	650	215	13	10.0	1.140	1.850	1.050
SCD474K122A3Z25	0.47	1200	580	500	235	10	12.0	1.140	1.850	1.050
SCD684K122A3Z25	0.68	1200	580	500	340	7	15.1	1.270	1.775	1.400
SCD105K122A3Z25	1.0	1200	580	500	500	5	18.5	1.370	1.775	1.400
SCD155K122A3Z25	1.5	1200	580	400	600	4	23.9	1.500	2.050	1.500
SCD205K122A3Z25	2.0	1200	580	400	800	4	30.1	1.825	2.225	1.975
SCD305K122C3Z25	3.0	1200	580	400	1200	5	39.7	3.000	2.475	1.500
SCD224K162A3Z25	0.22	1600	630	650	143	19	7.9	0.970	1.850	0.950
SCD334K162A3Z25	0.33	1600	630	650	215	12	10.0	1.140	1.850	1.050
SCD474K162A3Z25	0.47	1600	630	650	306	10	12.6	1.270	1.775	1.400
SCD684K162A3Z25	0.68	1600	630	650	442	7	15.3	1.370	1.775	1.400
SCD105K162A3Z25	1.0	1600	630	500	500	6	19.5	1.500	2.050	1.500
SCD155K162A3Z25	1.5	1600	630	400	600	5	25.6	1.600	2.700	1.500
SCD205K162A3Z25	2.0	1600	630	400	800	5	30.6	1.750	2.625	1.825
SCD224K202A3Z25	0.22	2000	630	800	176	19	8.2	0.970	1.850	0.950
SCD334K202A3Z25	0.33	2000	630	800	264	13	10.5	1.270	1.775	1.400
SCD474K202A3Z25	0.47	2000	630	600	282	10	13.0	1.350	2.200	1.200
SCD684K202A3Z25	0.68	2000	630	600	408	8	16.1	1.500	2.050	1.500
SCD105K202A3Z25	1.0	2000	630	600	600	6	21.3	1.825	2.225	1.975

Note: Modify PART NUMBER to specify lead spacing. Example: 44mm spacing would use -44 instead of Z25.

For additional ratings, contact factory.

Other capacitance values and lead orientations are available. Contact us.

Pulse, Hi-Frequency  
& Snubber  
Capacitors

## Mounting Across the Bus? CDE Will Accommodate Your Bus Structure

