

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Type SCD IGBT Snubber Capacitor Modules

High dV/dt Direct Mount IGBT Snubber



- 25.4 mm --

Specifications

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
- Low loss polypropylene dielectric
- Self healing
- Other terminal spacing and capacitance values available.
- We can build to your specs!
- 85 °C ambient temperature

Capacitance Range	0.22 to 4.7 μF					
Capacitance Tolerance	±10% (K) standard, ±5% (J) optional					
Rated Voltage	600 to 2000 Vdc					
Operating Temperature Range	-55 °C to 85 °C					
Maximum rms Current	Check tables for values					
Test Voltage between Terminals @ 25°C	160% rated DC voltage for 60 s					
Test Voltage between Terminals & Case @ 25°C	3 kVac @ 50/60 Hz for 60 s					
Life Test	2000 h @ 85 °C, 125% rated DC voltage					
Life Expectancy	60,000 h @ rated Vdc, 70 °C 30,000 h @ rated Vac, 70 °C					
RoHS	Compliant					

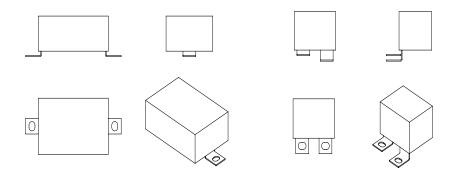
Dimensions Construction Details Case Material Plastic UL94V-0 Dry Resin UL94V-0 Resin Material W ±1.0 ±1.0 **Terminal Material Tin Plated Copper** ±1.0 5.0 mm 1.0 mm 17.0 mm 14.0 mm ±0.125 ±0.125 6.5 x 8.5 mm Tolerances: ±0.5mm unless otherwise specified +0.125 7.0 mm 15.0 mm

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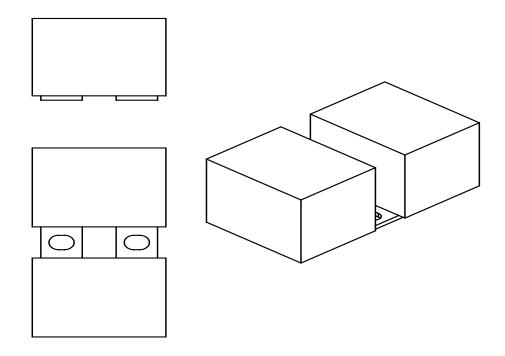
High dV/dt Direct Mount IGBT Snubber

Mounting Across the Bus?

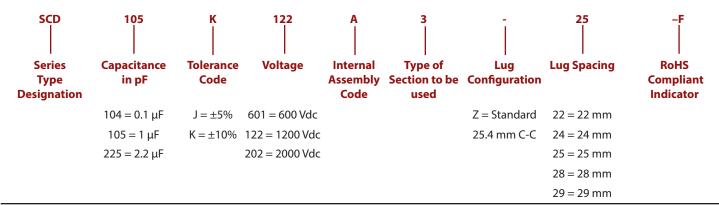
CDE Will Accommodate Your Bus Structure



Dual Snubber Assembly Option



Part Numbering System



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Ratings

Note: Other ratings, sizes and performance specification available upon request. Contact us.

							Irms				
Catalog		Volts					100 kHz				
Part Number	Cap.	Volts	60 Hz	dV/dt	lpk	ESR	55 °C	w	L	Н	
	(μ F)	(Vdc)	(Vac)	(V/μs)	(A)	(mΩ)	(Arms)	(mm)	(mm)	(mm	
				600 Vd	c						
SCD474K601A3Z25-F	0.47	600	275	250	118	9	9.2	24.6	47.0	24.1	
SCD684K601A3Z25-F	0.68	600	275	250	170	7	11.5	29.0	47.0	26.7	
SCD105K601A3Z25-F	1.00	600	275	200	200	5	14.0	29.0	47.0	26.7	
SCD155K601A3Z25-F	1.50	600	275	150	225	4	17.1	29.0	47.0	26.7	
SCD205K601A3Z25-F	2.00	600	275	150	300	3	20.7	32.3	45.1	35.6	
SCD335K601A3Z25-F	3.30	600	400	300	825	5	35.0	38.1	52.1	38.	
SCD475K601A3Z25-F	4.70	600	400	250	1175	4	46.2	46.4	56.5	50.2	
				1000 V	dc						
SCD474K102A3Z25-F	0.47	1000	275	250	118	11	9.2	24.6	47.0	24.	
SCD474K102D3Z25-F	0.47	1000	500	700	329	8	12.1	29.0	47.0	26.	
SCD684K102A3Z25-F	0.68	1000	275	200	136	7	11.5	29.0	47.0	26.	
SCD684K102D3Z25-F	0.68	1000	500	500	340	7	14.4	29.0	47.0	26.	
SCD105K102A3Z25-F	1.00	1000	275	200	200	4	14.0	29.0	47.0	26.	
SCD105K102D3Z25-F	1.00	1000	500	400	400	5	17.5	29.0	47.0	26.	
SCD155K102A3Z25-F	1.50	1000	275	160	240	4	17.9	32.3	45.1	35.	
SCD155K102D3Z25-F	1.50	1000	500	400	600	3	22.4	34.8	45.1	35.	
SCD205K102A3Z25-F	2.00	1000	275	160	320	4	20.9	34.8	45.1	35.	
SCD205K102D3Z25-F	2.00	1000	500	400	800	5	26.2	38.1	52.1	38.	
				1200 V	dc						
SCD224K122A3Z25-F	0.22	1200	500	650	143	19	7.9	24.6	47.0	24.	
SCD334K122A3Z25-F	0.33	1200	500	650	215	13	10.0	29.0	47.0	26.	
SCD474K122A3Z25-F	0.47	1200	500	500	235	10	12.0	29.0	47.0	26.	
SCD684K122A3Z25-F	0.68	1200	500	500	340	7	15.1	32.3	45.1	35.0	
SCD105K122A3Z25-F	1.00	1200	500	500	500	5	18.5	34.8	45.1	35.	
SCD155K122A3Z25-F	1.50	1200	500	400	600	4	23.9	38.1	52.1	38.	
SCD205K122A3Z25-F	2.00	1200	500	400	800	4	30.1	46.4	56.5	50.	
SCD305K122C3Z25-F		1200	500	400	1200	5	39.7		62.9	38.	
				1600 V							
SCD224K162A3Z25-F	0.22	1600	500	650	143	19	7.9	24.6	47.0	24.	
SCD334K162A3Z25-F	0.33	1600	500	650	215	12	10.0	29.0	47.0	26.	
SCD474K162A3Z25-F	0.47	1600	500	650	306	10	12.6	32.3	45.1	35.	
SCD684K162A3Z25-F	0.68	1600	500	650	442	7	15.3	34.8	45.1	35.	
SCD105K162A3Z25-F	1.00	1600	500	500	500	6	19.5	38.1	52.1	38.	
SCD155K162A3Z25-F	1.50	1600	500	400	600	5	25.6	41.9	68.6	38.	
SCD205K162A3Z25-F	2.00	1600	500	400	800	5	30.6	44.5	66.7	46.4	
	2.00			2000 V			30.0	17.5		70.	
SCD224K202A3Z25-F	0.22	2000	500	800	176	19	8.2	24.6	47.0	24.	
SCD334K202A3Z25-F	0.22	2000	500	800	264	13	10.5	32.3	45.1	35.6	
SCD474K202A3Z25-F	0.47	2000	500	600	282	10	13.0	34.3	55.9	30.	
SCD684K202A3Z25-F	0.47	2000	500	600	408	8	16.1	38.1	52.1	38.	

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

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