

TECHNICAL DATA
DATA SHEET 5352, REV. -

500W Transient Voltage Suppressor Diode Chip/Die

- Operating and Storage Temperature: -55°C to +175°C

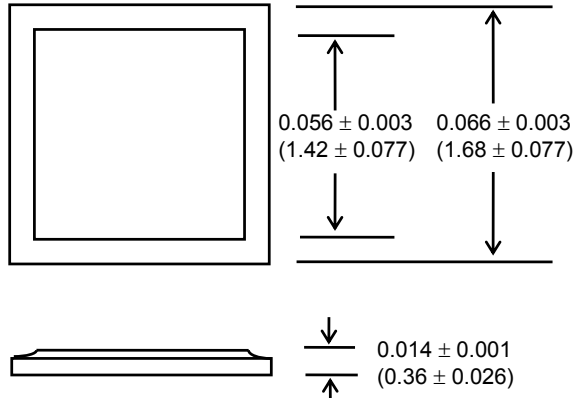
SERIES TYPE	MIN BREAKDOWN VOLTAGE $V_{(BR)} @ I_{(BR)}$		WORKING PEAK REVERSE VOLTAGE VRWM	MAXIMUM REVERSE CURRENT I_{R1}	MAX. CLAMP. VOLTAGE VC @ I_P tp = 1ms	MAX. PEAK PULSE CURRENT I_P	MAX. TEMP. COEFFICIENT $V_{(BR)}$
	Vdc	mA dc					
500W	Vdc	mA dc	Vdc	μ Adc	V(pk)	A(pk)	% / °C
1C6103A-SQ	7.13	175	5.7	50	11.2	44.6	.06
1C6104-SQ	7.38	150	6.2	20	12.7	39.0	.06
1C6104A-SQ	7.79	150	6.2	20	12.1	41.3	.06
1C6105-SQ	8.19	150	6.9	20	14	35.7	0.06
1C6105A-SQ	8.65	150	6.9	20	13.4	37.3	0.06
1C6106-SQ	9	125	7.6	20	15.2	32.9	0.07
1C6106A-SQ	9.5	125	7.6	20	14.5	34.5	0.07
1C6107-SQ	9.9	125	8.4	20	16.3	30.7	0.07
1C6107A-SQ	10.45	125	8.4	20	15.6	32.0	0.07
1C6108-SQ	10.8	100	9.1	20	17.7	28.2	0.07
1C6108A-SQ	11.4	100	9.1	20	16.9	29.6	0.07
1C6109-SQ	11.7	100	9.9	20	19	26.3	0.08
1C6109A-SQ	12.35	100	9.9	20	18.2	27.5	0.08
1C6110-SQ	13.5	75	11.4	20	21.9	22.8	0.08
1C6110A-SQ	14.25	75	11.4	20	21	23.8	0.08
1C6111-SQ	14.4	75	12.2	20	23.4	21.4	0.08
1C6111A-SQ	15.2	75	12.2	20	22.3	22.4	0.08
1C6112-SQ	16.2	65	13.7	1	26.3	19.0	0.085
1C6112A-SQ	17.1	65	13.7	1	25.1	19.9	0.085
1C6113-SQ	18	65	15.2	1	29	17.2	0.085
1C6113A-SQ	19	65	15.2	1	27.7	18.0	0.085
1C6114-SQ	19.8	50	16.7	1	31.9	15.7	0.085
1C6114A-SQ	20.9	50	16.7	1	30.5	16.4	0.085
1C6115-SQ	21.6	50	18.2	1	34.8	14.4	0.09
1C6115A-SQ	22.8	50	18.2	1	33.3	15.0	0.09
1C6116-SQ	24.3	50	20.6	1	39.2	12.8	0.09
1C6116A-SQ	25.7	50	20.6	1	37.4	13.4	0.09
1C6117-SQ	27	40	22.8	1	43.6	11.5	0.09
1C6117A-SQ	28.5	40	22.8	1	41.6	12.0	0.09
1C6118-SQ	29.7	40	25.1	1	47.9	10.4	0.095
1C6118A-SQ	31.4	40	25.1	1	45.7	10.9	0.095
1C6119-SQ	32.4	30	27.4	1	52.3	9.6	0.095
1C6119A-SQ	34.2	30	27.4	1	49.9	10.0	0.095
1C6120-SQ	35.1	30	29.7	1	56.2	8.9	0.095
1C6120A-SQ	37.1	30	29.7	1	53.6	9.3	0.095
1C6121-SQ	38.7	30	32.7	1	62	8.1	0.095
1C6121A-SQ	40.9	30	32.7	1	59.1	8.5	0.095
1C6122-SQ	42.3	25	35.8	1	67.7	7.4	0.095
1C6122A-SQ	44.7	25	35.8	1	64.6	7.7	0.095
1C6123-SQ	45.9	25	38.8	1	73.5	6.8	0.095
1C6123A-SQ	48.5	25	38.8	1	70.1	7.1	0.095
1C6124-SQ	50.4	20	42.6	1	80.7	6.2	0.095
1C6124A-SQ	53.2	20	42.6	1	77	6.5	0.095

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	Vdc	mA dc					
500W	Vdc	mA dc	Vdc	μ Adc	V(pk)	A(pk)	% / °C
1C6125-SQ	55.8	20	47.1	1	89.3	5.6	0.1
1C6125A-SQ	58.9	20	47.1	1	85.3	5.9	0.1
1C6126-SQ	61.2	20	51.7	1	98	5.1	0.1
1C6126A-SQ	64.6	20	51.7	1	97.1	5.1	0.1
1C6127-SQ	67.5	20	56	1	108.1	4.6	0.1
1C6127A-SQ	71.3	20	56	1	103.1	4.8	0.1
1C6128-SQ	73.8	15	62.2	1	118.2	4.2	0.1
1C6128A-SQ	77.9	15	62.2	1	112.8	4.4	0.1
1C6129A-SQ	86.5	15	69.2	1	125.1	4	0.1
1C6130-SQ	90	12	76	1	144.1	3.5	0.1
1C6130A-SQ	95	12	76	1	137.6	3.6	0.1
1C6131-SQ	99	12	83.6	1	158.5	3.2	0.1
1C6131A-SQ	104.5	12	83.6	1	151.3	3.3	0.1
1C6132-SQ	108	10	91.2	1	172.9	2.9	0.1
1C6132A-SQ	114	10	91.2	1	165.1	3	0.1
1C6133-SQ	117	10	98.8	1	187.3	2.7	0.105
1C6133A-SQ	123.5	10	98.8	1	178.8	2.8	0.105
1C6134-SQ	135	8	114	1	216.2	2.3	0.105
1C6134A-SQ	142.5	8	114	1	206.3	2.4	0.105
1C6135-SQ	144	8	121.6	1	228.8	2.2	0.105
1C6135A-SQ	152	8	121.6	1	218.4	2.3	0.105
1C6136-SQ	162	5	136.8	1	257.4	1.9	0.11
1C6136A-SQ	171	5	136.8	1	245.7	2	0.11
1C6137-SQ	180	5	152	1	286	1.7	0.11
1C6137A-SQ	190	5	152	1	273	1.8	0.11

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Mechanical Dimensions: inches



Bottom side metalization Ag - 30 kÅ minimum.

Top side metalization Al - 25 kÅ minimum or Ag - 30 kÅ minimum.

Bottom side is cathode, top side is anode.

PART ORDERING INFORMATION

Default part number is Al top, Ag bottom.

Add the following suffix for these metal combinations:

Suffix	Top	Bottom	Part Number
	Al	Ag	1C6104
AG	Al	Au	1C6104AG
BB	Ag	Ag	1C6104BB
BG	Ag	Au	1C6104BG
GG	Au	Au	1C6104GG
GB	Au	Ag	1C6104GB
-R	- Reverse polarity -		1C6104-R

A = Ti (0.3 kA) / Al (25 kA)

B = Ti (1.2 kA) / Ni (1.8 kA) / Ag (30kA)

G = Ti (1.2 kA) / Ni (1.8 kA) / Au (12kA) (**TOP**) / Ti (1.2 kA) / Ni (1.8 kA) / Au (4kA) (**BOTTOM**)

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