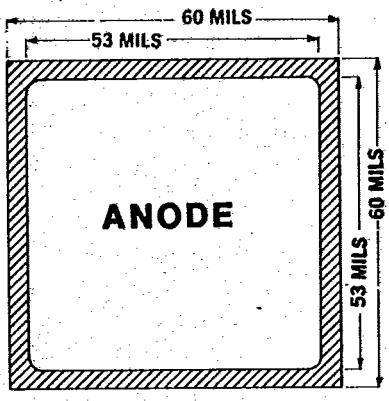
- ZENER DIODE CHIPS
- ALL JUNCTIONS COMPLETELY PROTECTED WITH SILICON DIOXIDE
- ELECTRICALLY EQUIVALENT TO 1N5333B THRU 1N5388B
- 5 WATT CAPABILITY WITH PROPER HEAT SINKING
- COMPATIBLE WITH ALL WIRE BONDING AND DIE ATTACH TECHNIQUES

CD5333B thru CD5388B

ELECTRICAL CHARACTERISTICS @ 25°C, unless otherwise specified

TYPE NUMBER	NOMINAL ZENER VOLTAGE (V_Z) (Note 1)	TEST CURRENT (I_{ZT})	MAXIMUM ZENER IMPEDANCE (Z_{ZT}) (Note 2)	MAXIMUM REVERSE CURRENT I_R @ V_R		MAXIMUM ZENER KNEE IMPEDANCE Z_{ZK} at 1.0 mA (Note 2)
	V	mA	OHMS	μA	VOLTS	OHMS
CD5333B	3.3	380	3.0	300	1.0	400
CD5334B	3.6	350	2.5	150	1.0	500
CD5335B	3.9	320	2.0	50	1.0	500
CD5336B	4.3	290	2.0	10	1.0	500
CD5337B	4.7	260	2.0	5.0	1.0	450
CD5338B	5.1	240	1.5	1.0	1.0	400
CD5339B	5.6	220	1.0	1.0	2.0	400
CD5340B	6.0	200	1.0	1.0	3.0	300
CD5341B	6.2	200	1.0	1.0	3.0	200
CD5342B	6.8	175	1.0	10	5.2	200
CD5343B	7.5	175	1.5	10	5.7	200
CD5344B	8.2	150	1.5	10	6.2	200
CD5345B	8.7	150	2.0	10	6.6	200
CD5346B	9.1	150	2.0	7.5	6.9	150
CD5347B	10	125	2.0	5.0	7.6	125
CD5348B	11	125	2.5	5.0	8.4	125
CD5349B	12	100	2.5	2.0	9.1	125
CD5350B	13	100	2.5	1.0	9.9	100
CD5351B	14	100	2.5	1.0	10.6	75
CD5352B	15	75	2.5	1.0	11.5	75
CD5353B	16	75	2.5	1.0	12.2	75
CD5354B	17	70	2.5	0.5	12.9	75
CD5355B	18	65	2.5	0.5	13.7	75
CD5356B	19	65	3.0	0.5	14.4	75
CD5357B	20	65	3.0	0.5	15.2	75
CD5358B	22	50	3.5	0.5	16.7	75
CD5359B	24	50	3.5	0.5	18.2	100
CD5360B	25	50	4.0	0.5	19	110
CD5361B	27	50	5.0	0.5	20.6	120
CD5362B	28	50	6.0	0.5	21.2	130
CD5363B	30	40	8.0	0.5	22.8	140
CD5364B	33	40	10	0.5	25.1	150
CD5365B	36	30	11	0.5	27.4	160
CD5366B	39	30	14	0.5	29.7	170
CD5367B	43	30	20	0.5	32.7	190
CD5368B	47	25	25	0.5	35.8	210
CD5369B	51	25	27	0.5	38.8	230
CD5370B	56	20	35	0.5	42.6	280
CD5371B	60	20	40	0.5	45.5	350
CD5372B	62	20	42	0.5	47.1	400
CD5373B	68	20	44	0.5	51.7	500
CD5374B	75	20	45	0.5	56	620
CD5375B	82	15	65	0.5	62.2	720
CD5376B	87	15	75	0.5	66	760
CD5377B	91	15	75	0.5	69.2	760
CD5378B	100	12	90	0.5	76	800
CD5379B	110	12	125	0.5	83.6	1000
CD5380B	120	10	170	0.5	91.2	1150
CD5381B	130	10	190	0.5	98.8	1250
CD5382B	140	8.0	230	0.5	106	1500
CD5383B	150	8.0	330	0.5	114	1500
CD5384B	160	8.0	350	0.5	122	1650
CD5385B	170	8.0	380	0.5	129	1750
CD5386B	180	5.0	430	0.5	137	1750
CD5387B	190	5.0	450	0.5	144	1850
CD5388B	200	5.0	480	0.5	152	1850

Notes on page 68.



BACKSIDE IS CATHODE

FIGURE 1

DESIGN DATA

METALLIZATION:
Top: (Anode)..... Al
Back: (Cathode)..... Au

AL THICKNESS... 12000 Å Min

GOLD THICKNESS...3000 Å Min

CHIP THICKNESS...15 Mils Max

CIRCUIT LAYOUT DATA:
For zener operation, cathode must be operated positive with respect to anode.

www.DataSheet4U.com

CD5333B thru CD5388B

www.DataSheet4U.com

MAXIMUM RATINGS

Operating Temperatures: -65°C to +200°C

Storage Temperatures: -65°C to +200°C

Forward Voltage @ 200mA: 1.5 volts maximum

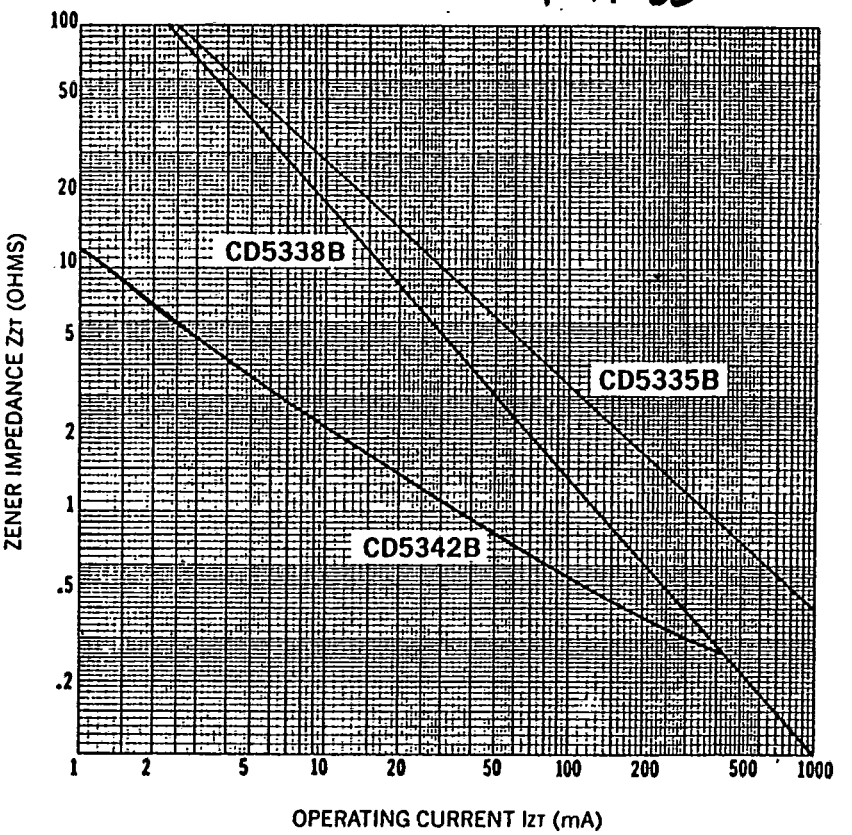


FIGURE 2
TYPICAL CHANGE OF ZENER IMPEDANCE WITH CHANGE IN OPERATING CURRENT FOR TYPES SHOWN

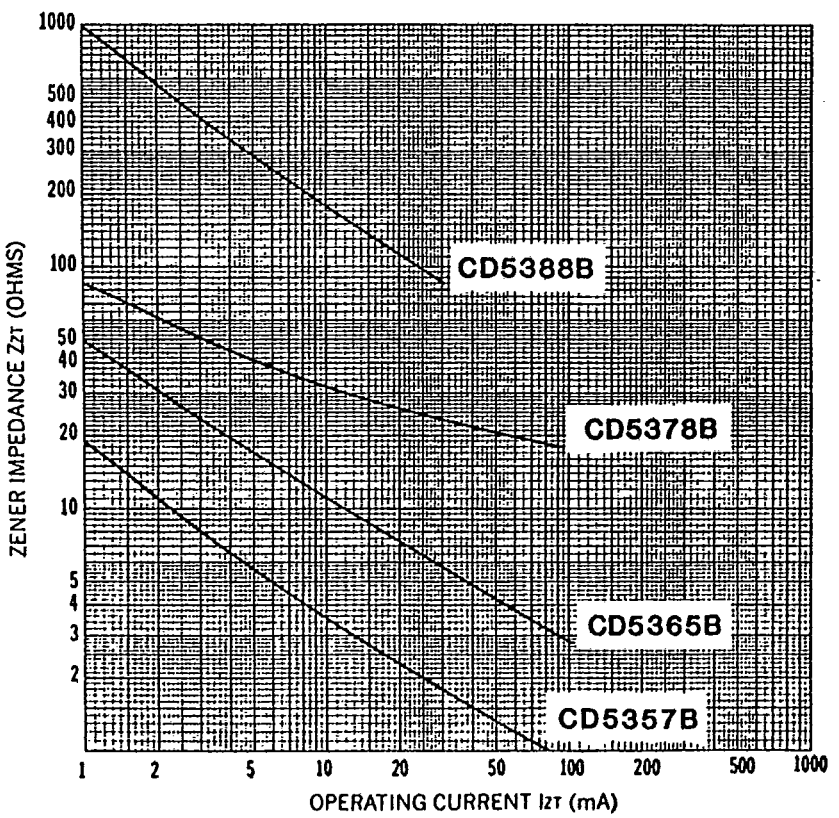


FIGURE 3
TYPICAL CHANGE OF ZENER IMPEDANCE WITH CHANGE IN OPERATING CURRENT FOR TYPES SHOWN

www.DataSheet4U.com

NOTE 1 Zener voltage range equals nominal voltage ± 5%.

NOTE 2 Zener impedance is derived by superimposing on Izt a 60Hz rms a.c. current equal to 10% of Izt.