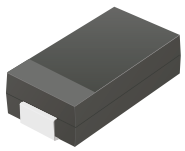
ACZRC5333B-G Thru. ACZRC5388B-G

Voltage: 3.3 to 200 Volts
Power: 5 Watts
RoHS Device



Features

-Glass passivated chip.

-Low leakage.

-Built-in strain relief.

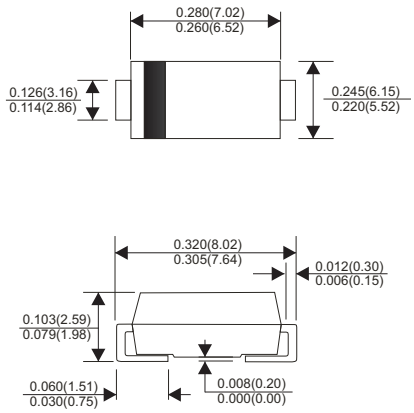
-Low inductance.

-High peak reverse power dissipation.

-For use in stabilizing and clipping circuits with high power.

-Comply with AEC-Q101

SMC/DO-214AB



Dimensions in inches and (millimeter)

Mechanical data

-Case: DO-214AB(SMC), Molded plastic.

-Epoxy: UL 94V-0 rate flame retardant.

-Terminals: Solderable per MIL-STD-750 ,method 2026 guranteed.

-Polarity: Color band denotes cathode.

-Mounting position: Any.

-Weight: Approx. 0.21 grams.

Circuit diagram



Maximum Ratings (TA=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
DC Power Dissipation,T_L = 75°C (Note1)	P_D	5	W
Maximun Forward voltage at I_F=1A	V_F	1.2	V
Junction and Storage Temperature Range	T_J,T_{STG}	-55 to +150	°C

(1) TL = Lead temperature at 3/8” (9.5mm) from body.

Electrical Characteristics (Ta = 25°C)

Part Number	Nominal Zener Voltage		Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current	Marking Code
	VZ @ IZT	IZT	ZZT @ IZT	ZZK @ IZK	IZK	IR @ VR		IZM	
	(V)	(mA)	(Ohm)	(Ohm)	(mA)	(uA)	(V)	(mA)	
ACZRC5333B-G	3.3	380	3.0	400	1	300.0	1.0	1437.0	333B
ACZRC5334B-G	3.6	350	2.5	500	1	150.0	1.0	1317.0	334B
ACZRC5335B-G	3.9	320	2.0	500	1	50.0	1.0	1216.0	335B
ACZRC5336B-G	4.3	290	2.0	500	1	10.0	1.0	1103.0	336B
ACZRC5337B-G	4.7	260	2.0	450	1	5.0	1.0	1009.0	337B
ACZRC5338B-G	5.1	240	1.5	400	1	1.0	1.0	930.0	338B
ACZRC5339B-G	5.6	220	1.0	400	1	1.0	2.0	846.0	339B
ACZRC5340B-G	6.0	200	1.0	300	1	1.0	3.0	790.0	340B
ACZRC5341B-G	6.2	200	1.0	200	1	1.0	3.0	765.0	341B
ACZRC5342B-G	6.8	175	1.0	200	1	10.0	5.2	700.0	342B
ACZRC5343B-G	7.5	175	1.5	200	1	10.0	5.7	630.0	343B
ACZRC5344B-G	8.2	150	1.5	200	1	10.0	6.2	580.0	344B
ACZRC5345B-G	8.7	150	2.0	200	1	10.0	6.6	545.0	345B
ACZRC5346B-G	9.1	150	2.0	150	1	7.5	6.9	520.0	346B
ACZRC5347B-G	10.0	125	2.0	125	1	5.0	7.6	475.0	347B
ACZRC5348B-G	11.0	125	2.5	125	1	5.0	8.4	430.0	348B
ACZRC5349B-G	12.0	100	2.5	125	1	2.0	9.1	395.0	349B
ACZRC5350B-G	13.0	100	2.5	100	1	1.0	9.9	365.0	350B
ACZRC5351B-G	14.0	100	2.5	75	1	1.0	10.6	340.0	351B
ACZRC5352B-G	15.0	75	2.5	75	1	1.0	11.5	315.0	352B
ACZRC5353B-G	16.0	75	2.5	75	1	1.0	12.2	295.0	353B
ACZRC5354B-G	17.0	70	2.5	75	1	0.5	12.9	280.0	354B
ACZRC5355B-G	18.0	65	2.5	75	1	0.5	13.7	265.0	355B
ACZRC5356B-G	19.0	65	3.0	75	1	0.5	14.4	250.0	356B
ACZRC5357B-G	20.0	65	3.0	75	1	0.5	15.2	237.0	357B
ACZRC5358B-G	22.0	50	3.5	75	1	0.5	16.7	216.0	358B
ACZRC5359B-G	24.0	50	3.5	100	1	0.5	18.2	198.0	359B
ACZRC5360B-G	25.0	50	4.0	110	1	0.5	19.0	190.0	360B
ACZRC5361B-G	27.0	50	5.0	120	1	0.5	20.6	176.0	361B
ACZRC5362B-G	28.0	50	6.0	130	1	0.5	21.2	170.0	362B
ACZRC5363B-G	30.0	40	8.0	140	1	0.5	22.8	158.0	363B
ACZRC5364B-G	33.0	40	10.0	150	1	0.5	25.1	144.0	364B
ACZRC5365B-G	36.0	30	11.0	160	1	0.5	27.4	132.0	365B
ACZRC5366B-G	39.0	30	14.0	170	1	0.5	29.7	122.0	366B
ACZRC5367B-G	43.0	30	20.0	190	1	0.5	32.7	110.0	367B
ACZRC5368B-G	47.0	25	25.0	210	1	0.5	35.8	100.0	368B
ACZRC5369B-G	51.0	25	27.0	230	1	0.5	38.8	93.0	369B
ACZRC5370B-G	56.0	20	35.0	280	1	0.5	42.6	86.0	370B

Notes:

(1) The type number listed have a standard tolerance on th nominal zener voltage of ± 5%.

(2) The reverse surge current is a non-repetitive,8.3ms pulse width square wave or equivalent sine-wave superimposed on I_{ZT} per JEDEC Method.

Company reserves the right to improve product design , functions and reliability without notice.

Electrical Characteristics (Ta = 25°C)

Part Number	Nominal Zener Voltage		Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current	Marking Code
	VZ @ IZT	IZT	ZZT @ IZT	ZZK @ IZK	IZK	IR @ VR		IZM	
	(V)	(mA)	(Ohm)	(Ohm)	(mA)	(uA)	(V)	(mA)	
ACZRC5371B-G	60.0	20	40.0	350	1	0.5	45.5	79.0	371B
ACZRC5372B-G	62.0	20	42.0	400	1	0.5	47.1	76.0	372B
ACZRC5373B-G	68.0	20	44.0	500	1	0.5	51.7	70.0	373B
ACZRC5374B-G	75.0	20	45.0	620	1	0.5	56.0	63.0	374B
ACZRC5375B-G	82.0	15	65.0	720	1	0.5	62.2	58.0	375B
ACZRC5376B-G	87.0	15	75.0	760	1	0.5	66.0	54.5	376B
ACZRC5377B-G	91.0	15	75.0	760	1	0.5	69.2	52.5	377B
ACZRC5378B-G	100.0	12	90.0	800	1	0.5	76.0	47.5	378B
ACZRC5379B-G	110.0	12	125.0	1000	1	0.5	83.6	43.0	379B
ACZRC5380B-G	120.0	10	170.0	1150	1	0.5	91.2	39.5	380B
ACZRC5381B-G	130.0	10	190.0	1250	1	0.5	98.8	36.6	381B
ACZRC5382B-G	140.0	8	230.0	1500	1	0.5	106.0	34.0	382B
ACZRC5383B-G	150.0	8	330.0	1500	1	0.5	114.0	31.6	383B
ACZRC5384B-G	160.0	8	335.0	1650	1	0.5	122.0	29.4	384B
ACZRC5385B-G	170.0	8	380.0	1750	1	0.5	129.0	28.0	385B
ACZRC5386B-G	180.0	5	430.0	1750	1	0.5	137.0	26.4	386B
ACZRC5387B-G	190.0	5	450.0	1850	1	0.5	144.0	25.0	387B
ACZRC5388B-G	200.0	5	480.0	1850	1	0.5	152.0	23.6	388B

Notes:

(1) The type number listed have a standard tolerance on th nominal zener voltage of ± 5%.
(2) The reverse surge current is a non-repetitive,8.3ms pulse width square wave or equivalent sine-wave superimposed on IZT per JEDEC Method.

RATING AND CHARACTERISTIC CURVES (ACZRC5333B-G Thru. ACZRC5388B-G)

Fig.1- Power temperature derating current

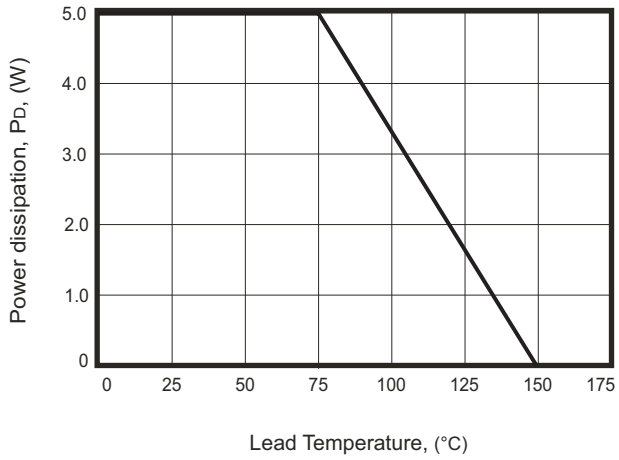


Fig.2- Temperature coefficients v.s. Zener voltage

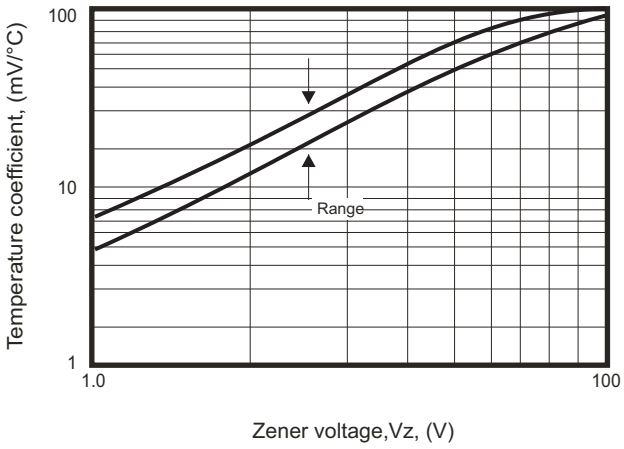


Fig.3- Typical thermal resistance v.s. lead length

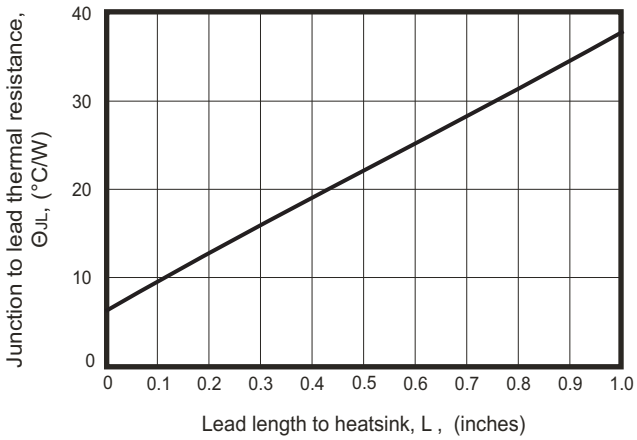


Fig.4 - Maximum surge power

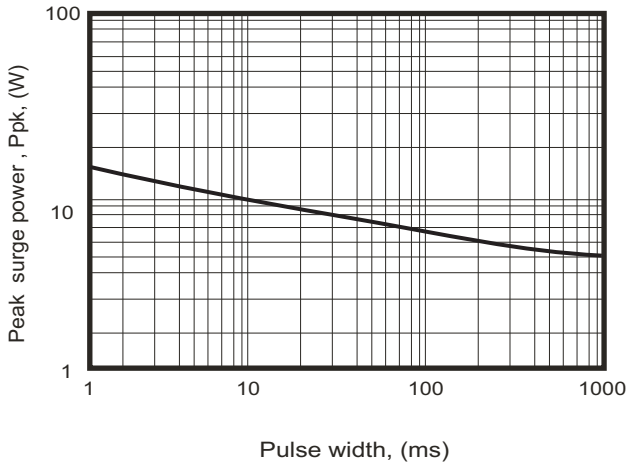
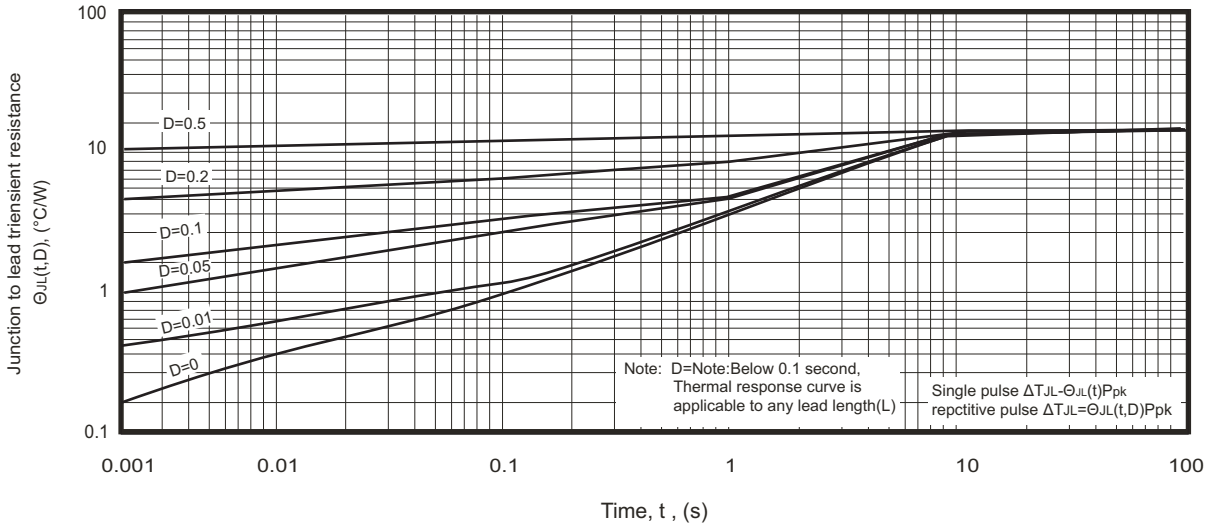
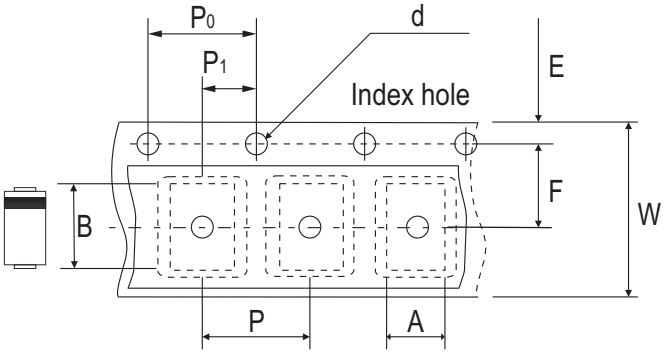
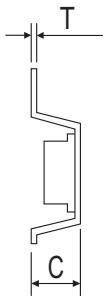


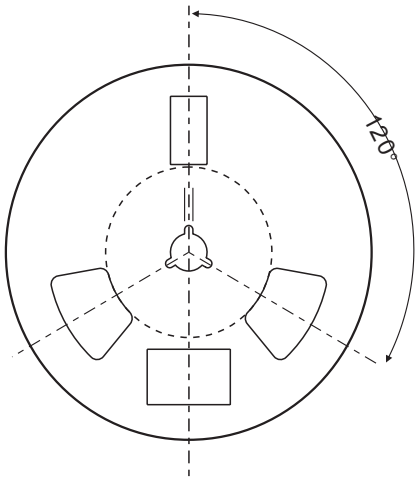
Fig.5- Typical thermal response L, lead length=3/8 inch

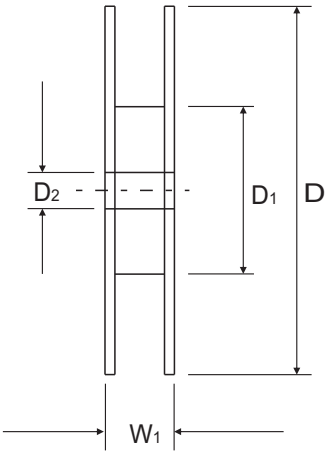


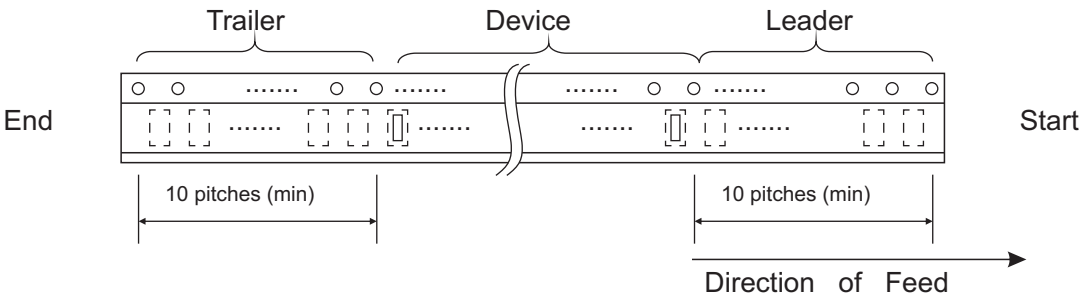
Reel Taping Specification











DO-214AB (SMC)	SYMBOL	A	B	C	d	D	D1	D2
	(mm)	6.05 ± 0.10	8.31 ± 0.10	3.29 (max)	1.55 + 0.10	330.00	50.00 (min)	13.00 ± 0.20
	(inch)	0.238 ± 0.004	0.327 ± 0.004	0.130 (max)	0.061 + 0.004	13.000	1.969 (min)	0.512 ± 0.008

DO-214AB (SMC)	SYMBOL	E	F	P	P0	P1	W	W1
	(mm)	1.75 ± 0.10	7.50 ± 0.10	8.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.10	16.00 ± 0.30	22.40 (max)
	(inch)	0.069 ± 0.004	0.295 ± 0.004	0.315 ± 0.004	0.157 ± 0.004	0.079 ± 0.004	0.630 ± 0.012	0.882 (max)

Marking Code

Part Number	Marking Code
ACZRC5333B-G Thru. ACZRC5388B-G Series	XXX

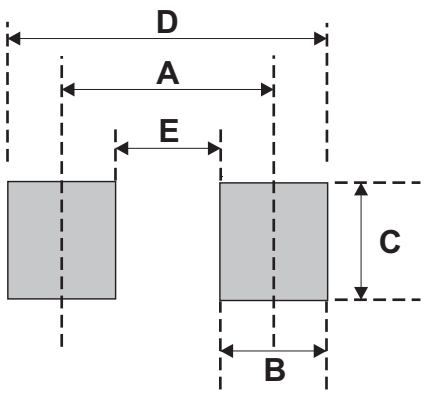


3. XXX: Marking code (see Page.3~4)

4. ▌: Cathod Band

Suggested PAD Layout

SIZE	DO-214AB(SMC)	
	(mm)	(inch)
A	6.20	0.244
B	1.60	0.063
C	4.80	0.189
D	7.80	0.307
E	4.60	0.181



Standard Packaging

Case Type	REEL PACK	
	REEL (pcs)	Reel Size (inch)
DO-214AB (SMC)	3,000	13