



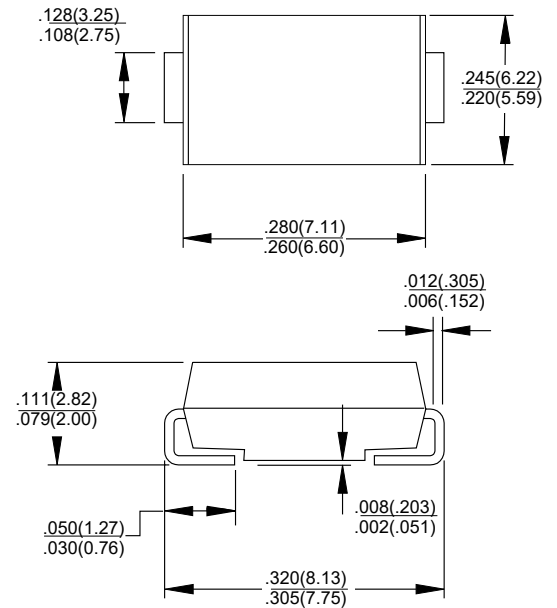
## Features

- Glass passivated chip
- Low leakage
- Built-in strain relief
- Low inductance
- High peak reverse power dissipation
- Lead (Pb)-free component
- For use in stabilizing and clipping with high power rating with high power rating

## Mechanical data

- Case : DO-214AB (SMC)
- Case Material : Molded Plastic. UL Flammability Classification Rating 94V-0
- Terminals : Lead Free Plating (Tin Finish). Solderable per MIL-STD-202, Method 208
- Polarity : Cathode Band
- Weight : 0.231 grams (approximate)

## SMC/DO-214AB



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

Parameter	Symbol	Value	UNIT
DC Power Dissipation at $T_L = 75^\circ\text{C}$	$P_D$	5.0	W
Maximum Forward Voltage at $I_F = 1\text{A}$ .	$V_F$	1.2	V
Junction Temperature Range	$T_J$	- 55 to + 150	°C
Storage Temperature Range	$T_{STG}$	- 55 to + 150	°C

# DEVICE CHARACTERISTICS

## SMC53xxB

### Electrical Characteristics (TA=25°C unless otherwise noted)

Part Number	Nominal Zener Voltage VZ(V) @ IZT			Max. Zener Impedance				Reverse Leakage Current		Max. DC Zener Current(mA)	Marking
	Min.	Nom.	Max.	IZT(mA)	@ ZZT(Ω)	ZZK(Ω)	@ IZK(mA)	IR(μA)	@ VR(V)		
SMC5341B	5.89	6.2	6.51	200	1	200	1	1	3	765	341B
SMC5342B	6.46	6.8	7.14	175	1	200	1	10	5.2	700	342B
SMC5343B	7.125	7.5	7.875	175	1.5	200	1	10	5.7	630	343B
SMC5344B	7.79	8.2	8.61	150	1.5	200	1	10	6.2	580	344B
SMC5345B	8.265	8.7	9.135	150	2	200	1	10	6.6	545	345B
SMC5346B	8.645	9.1	9.555	150	2	150	1	7.5	6.9	520	346B
SMC5347B	9.5	10	10.5	125	2	125	1	5	7.6	475	347B
SMC5348B	10.45	11	11.55	125	2.5	125	1	5	8.4	430	348B
SMC5349B	11.4	12	12.6	100	3	125	1	2	9.1	395	349B
SMC5350B	12.35	13	13.65	100	3	100	1	1	9.9	365	350B
SMC5351B	13.3	14	14.7	100	3	75	1	1	10.6	340	351B
SMC5352B	14.25	15	15.75	75	3	75	1	1	11.5	315	352B
SMC5353B	15.2	16	16.8	75	3	75	1	1	12.2	295	353B
SMC5354B	16.15	17	17.85	70	3	75	1	0.5	12.9	280	354B
SMC5355B	17.1	18	18.9	65	3	75	1	0.5	13.7	265	355B
SMC5356B	18.05	19	19.95	65	3	75	1	0.5	14.4	250	356B
SMC5357B	19	20	21	65	3	75	1	0.5	15.2	237	357B
SMC5358B	20.9	22	23.1	50	4	75	1	0.5	16.7	216	358B
SMC5359B	22.8	24	25.2	50	4	100	1	0.5	18.2	198	359B
SMC5360B	23.75	25	26.25	50	4	110	1	0.5	19	190	360B
SMC5361B	25.65	27	28.35	50	5	120	1	0.5	20.6	176	361B
SMC5362B	26.6	28	29.4	50	6	130	1	0.5	21.2	170	362B
SMC5363B	28.5	30	31.5	40	8	140	1	0.5	22.8	158	363B
SMC5364B	31.35	33	34.65	40	10	150	1	0.5	25.1	144	364B
SMC5365B	34.2	36	37.8	30	11	160	1	0.5	27.4	133	365B
SMC5366B	37.05	39	40.95	30	14	170	1	0.5	29.7	122	366B
SMC5367B	40.85	43	45.15	30	20	190	1	0.5	32.7	110	367B
SMC5368B	44.65	47	49.35	25	25	210	1	0.5	35.8	100	368B
SMC5369B	48.45	51	53.55	25	27	230	1	0.5	38.8	93	369B
SMC5370B	53.2	56	58.8	20	35	280	1	0.5	42.6	86	370B
SMC5371B	57	60	63	20	40	350	1	0.5	42.5	79	371B
SMC5372B	58.9	62	65.1	20	42	400	1	0.5	47.1	76	372B
SMC5373B	64.6	68	71.4	20	44	500	1	0.5	51.7	70	373B
SMC5374B	71.25	75	78.75	20	45	620	1	0.5	56	63	374B
SMC5375B	77.9	82	86.1	15	65	720	1	0.5	62.2	58	375B
SMC5376B	82.65	87	91.35	15	75	760	1	0.5	66	54.5	376B
SMC5377B	86.45	91	95.55	15	75	760	1	0.5	69.2	52.5	377B
SMC5378B	95	100	105	12	90	800	1	0.5	76	47.5	378B
SMC5379B	104.5	110	115.5	12	125	1000	1	0.5	83.6	43	379B
SMC5380B	114	120	126	10	170	1150	1	0.5	91.2	39.5	380B
SMC5381B	123.5	130	136.5	10	190	1250	1	0.5	98.8	36.6	381B
SMC5382B	133	140	147	8	230	1500	1	0.5	106	34	382B
SMC5383B	142.5	150	157.5	8	330	1500	1	0.5	114	31.6	383B
SMC5384B	152	160	168	8	350	1650	1	0.5	122	29.4	384B
SMC5385B	161.5	170	178.5	8	380	1750	1	0.5	129	28	385B
SMC5386B	171	180	189	5	430	1750	1	0.5	137	26.4	386B
SMC5387B	180.5	190	199.5	5	450	1850	1	0.5	144	25	387B
SMC5388B	190	200	210	5	480	1850	1	0.5	152	23.6	388B

**NOTE :**

- 1.The type number listed have a standard tolerance on the nominal zener voltage of  $\pm 5\%$
- 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

# DEVICE CHARACTERISTICS

## SMC53xxB

### Rating and Characteristics Curves

Fig. 1-Power Temperature Derating Curve

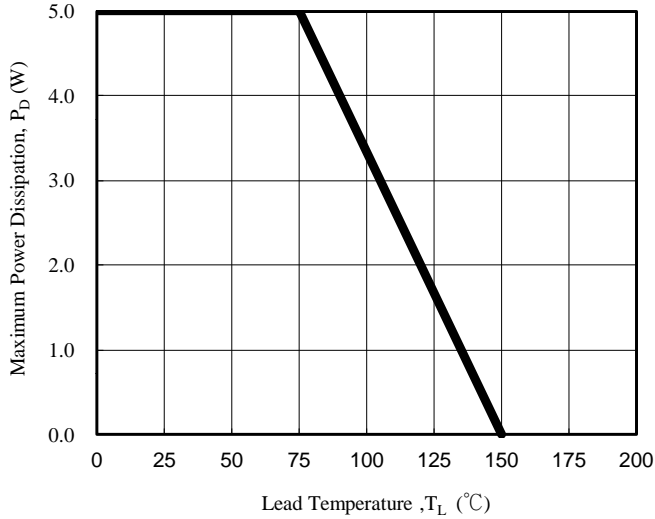


Fig. 2-Temperature Coefficients v.s. Zener Voltage

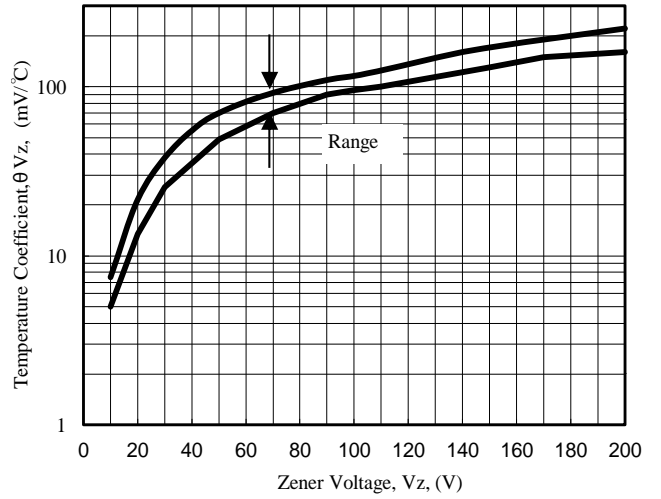


Fig. 3-Pulse Waveform

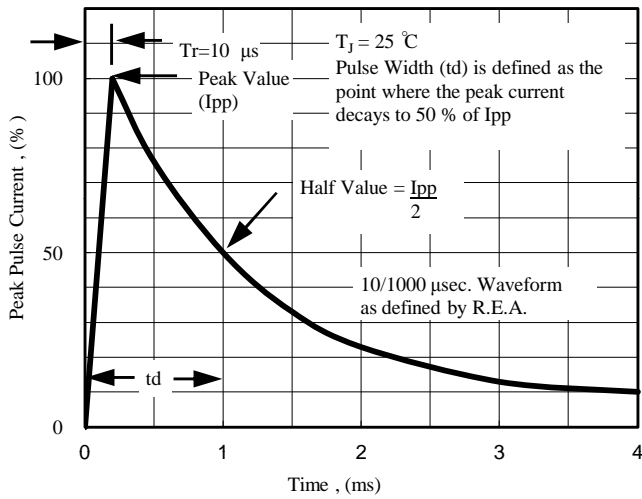


FIG.4-Maximum Surge Power

