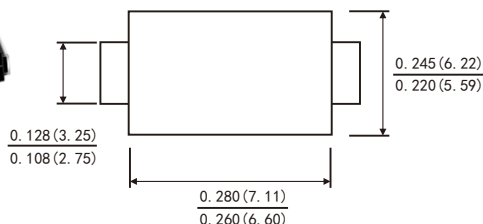


FEATURES

- Low inductance, Glass passivated chip, Built-in strain relief
- Maximum power dissipation of 5W
- For use in stabilizing and clipping with high power rating
- High peak reverse power dissipation, Low reverse leakage
- High temperature soldering guaranteed: 260°C/10 seconds at terminals
- Tolerance approximately ±5%

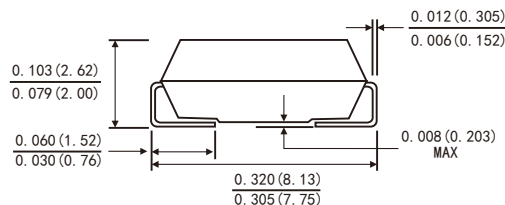


SMC(DO-214AB)



MECHANICAL DATA

- Case: SMC (DO-214AB) Molded plastic
- Terminals: Solder plated
- Polarity: Color band denotes cathode end



Dimensions in inches and (millimeters)

ABSOLUTE MAXIMUM RATINGS(LIMITING VALUES) (TA=25°C)

Parameter	Symbols	Value	Units
Maximum forward voltage at IF=200mA	V _F	1.2	V
Power dissipation	P _D	5	W
Junction temperature	T _J	150	°C
Storage temperature range	T _{STG}	-55 to+150	°C

ELECTRICAL CHARACTERISTICS (TA=25°C)

Parameter	Symbols	Min	Typ	Max	Units
Thermal resistance junction to lead	RθJL	--	15	--	°C/W

SMC53XXA SERIES

Part Number	Device Marking Code	Nominal Zener Voltage @I _T			I _{ZT} (mA)	Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current
		V _{Z AVE} (V)	V _{Z MIN} (V)	V _{Z MAX} (V)		Z _{VT MAX} (Ω) @I _{ZT}	Z _{ZK MAX} (Ω) @I _{ZK}	I _{ZK} (mA)	I _R (uA) @V _R	V _R (V)	
SMC5333A	333A	3.3	3.14	3.47	380	3.0	400	1.00	300	1.0	1437.0
SMC5334A	334A	3.6	3.42	3.78	350.0	2.5	500	1.00	150	1.0	1317.0
SMC5335A	335A	3.9	3.71	4.10	320.0	2.0	500	1.00	50	1.0	1216.0
SMC5336A	336A	4.3	4.09	4.52	290.0	2.0	500	1.00	10	1.0	1103.0
SMC5337A	337A	4.7	4.47	4.94	260.0	2.0	450	1.00	5	1.0	1009.0
SMC5338A	338A	5.1	4.85	5.36	240.0	1.5	400	1.00	1.0	1.0	930.0
SMC5339A	339A	5.6	5.32	5.88	220.0	1.0	400	1.00	1.0	2.0	846.0
SMC5340A	340A	6.0	5.70	6.30	200.0	1.0	300	1.00	1.0	3.0	790.0
SMC5341A	341A	6.2	5.89	6.51	200.0	1.0	200	1.00	1.0	3.0	765.0
SMC5342A	342A	6.8	6.46	7.14	175.0	1.0	200	1.00	10.0	5.2	700.0
SMC5343A	343A	7.5	7.13	7.88	175.0	1.5	200	1.00	10.0	5.7	630.0
SMC5344A	344A	8.2	7.79	8.61	150.0	1.5	200	1.00	10.0	6.2	580.0
SMC5345A	345A	8.7	8.27	9.14	150.0	2.0	200	1.00	10.0	6.6	545.0
SMC5346A	346A	9.1	8.65	9.56	150.0	2.0	150	1.00	7.5	6.9	520.0
SMC5347A	347A	10.0	9.50	10.50	125.0	2.0	125	1.00	5	7.6	475.0
SMC5348A	348A	11.0	10.45	11.55	125.0	2.5	125	1.00	5	8.4	430.0
SMC5349A	349A	12.0	11.40	12.60	100.0	2.5	125	1.00	2	9.1	395.0
SMC5350A	350A	13.0	12.35	13.65	100.0	2.5	100	1.00	1	9.9	365.0
SMC5351A	351A	14.0	13.30	14.70	100.0	2.5	75	1.00	1	10.6	340.0
SMC5352A	352A	15.0	14.25	15.75	75.0	2.5	75	1.00	1	11.5	315.0
SMC5353A	353A	16.0	15.20	16.80	75.0	2.5	75	1.00	1	12.2	295.0
SMC5354A	354A	17.0	16.15	17.85	70.0	2.5	75	1.00	0.5	12.9	280.0
SMC5355A	355A	18.0	17.10	18.90	65.0	2.5	75	1.00	0.5	13.7	265.0
SMC5356A	356A	19.0	18.05	19.95	65.0	3.0	75	1.00	0.5	14.4	250.0
SMC5357A	357A	20.0	19.00	21.00	65.0	3.0	75	1.00	0.5	15.2	237.0
SMC5358A	358A	22.0	20.90	23.10	50.0	3.5	75	1.00	0.5	16.7	216.0
SMC5359A	359A	24.0	22.80	25.20	50.0	3.5	100	1.00	0.5	18.2	198.0
SMC5360A	360A	25.0	23.75	26.25	50.0	4.0	110	1.00	0.5	19.0	190.0
SMC5361A	361A	27.0	25.65	28.35	50.0	5.0	120	1.00	0.5	20.6	176.0
SMC5362A	362A	28.0	26.60	29.40	50.0	6.0	130	1.00	0.5	21.2	170.0
SMC5363A	363A	30.0	28.50	31.50	40.0	8.0	140	1.00	0.5	22.8	158.0
SMC5364A	364A	33.0	31.35	34.65	40.0	10.0	150	1.00	0.5	25.1	144.0
SMC5365A	365A	36.0	34.20	37.80	30.0	11.0	160	1.00	0.5	27.4	132.0
SMC5366A	366A	39.0	37.05	40.95	30.0	14.0	170	1.00	0.5	29.7	122.0
SMC5367A	367A	43.0	40.85	45.15	30.0	20.0	190	1.00	0.5	32.7	110.0
SMC5368A	368A	47.0	44.65	49.35	25.0	25.0	210	1.00	0.5	35.8	100.0
SMC5369A	369A	51.0	48.45	53.55	25.0	27.0	230	1.00	0.5	38.8	93.0
SMC5370A	370A	56.0	53.20	58.80	20.0	35.0	280	1.00	0.5	42.6	86.0
SMC5371A	371A	60.0	57.00	63.00	20.0	40.0	350	1.00	0.5	42.5	79.0
SMC5372A	372A	62.0	58.90	65.10	20.0	42.0	400	1.00	0.5	47.1	76.0
SMC5373A	373A	68.0	64.60	71.40	20.0	44.0	500	1.00	0.5	51.7	70.0
SMC5374A	374A	75.0	71.25	78.75	20.0	45.0	620	1.00	0.5	56.0	63.0
SMC5375A	375A	82.0	77.90	86.10	15.0	65.0	720	1.00	0.5	62.2	58.0
SMC5376A	376A	87.0	82.65	91.35	15.0	75.0	760	1.00	0.5	66.0	54.5
SMC5377A	377A	91.0	86.45	95.55	15.0	75.0	760	1.00	0.5	69.2	52.5
SMC5378A	378A	100.0	95.00	105.00	12.0	90.0	800	1.00	0.5	76.0	47.5

SMC53XXA SERIES

Part Number	Device Marking Code	Nominal Zener Voltage @ I_T			I_{ZT} (mA)	Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current
		$V_{Z AVE.}$ (V)	$V_{Z MIN.}$ (V)	$V_{Z MAX.}$ (V)		$Z_{ZT MAX.}$ (Ω) @ I_{ZT}	$Z_{ZK MAX.}$ (Ω) @ I_{ZK}	I_{ZK} (mA)	I_R (μ A) @ V_R	V_R (V)	I_{ZM} (mA)
SMC5379A	379A	110.0	104.50	115.50	12.0	125.0	1000	1.00	0.5	83.6	43.0
SMC5380A	380A	120.0	114.00	126.00	10.0	170.0	1150	1.00	0.5	91.2	39.5
SMC5381A	381A	130.0	123.50	136.50	10.0	190.0	1250	1.00	0.5	98.8	36.6
SMC5382A	382A	140.0	133.00	147.00	8.0	230.0	1500	1.00	0.5	106.0	34.0
SMC5383A	383A	150.0	142.50	157.50	8.0	330.0	1500	1.00	0.5	114.0	31.6
SMC5384A	384A	160.0	152.00	168.00	8.0	350.0	1650	1.00	0.5	122.0	29.4
SMC5385A	385A	170.0	161.50	178.50	8.0	380.0	1750	1.00	0.5	129.0	28.0
SMC5386A	386A	180.0	171.00	189.00	5.0	430.0	1750	1.00	0.5	137.0	26.4
SMC5387A	387A	190.0	180.50	199.50	5.0	450.0	1850	1.00	0.5	144.0	25.0
SMC5388A	388A	200.0	190.00	210.00	5.0	480.0	1850	1.00	0.5	152.0	23.6

Typical Characteristics

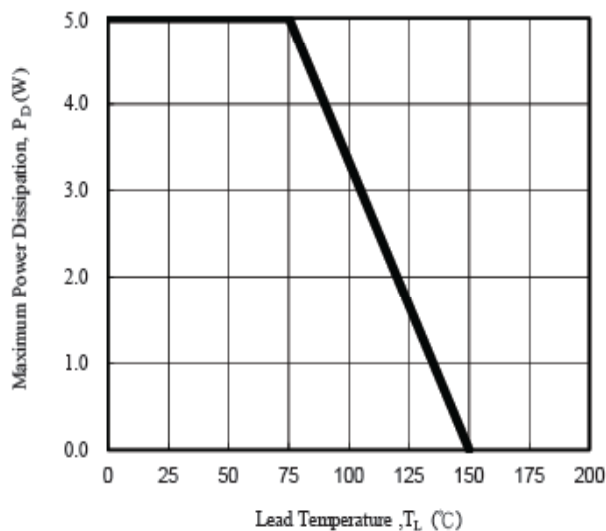


Fig. 1 - Power Temperature Derating Curve

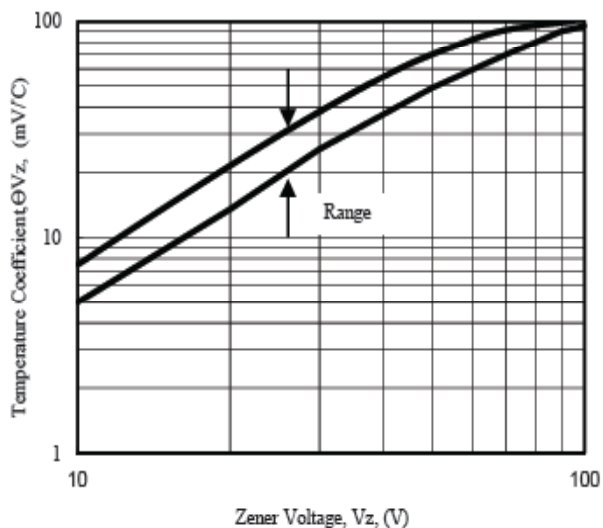


Fig. 2 - Temperature Coefficients v.s. Zener Voltage

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