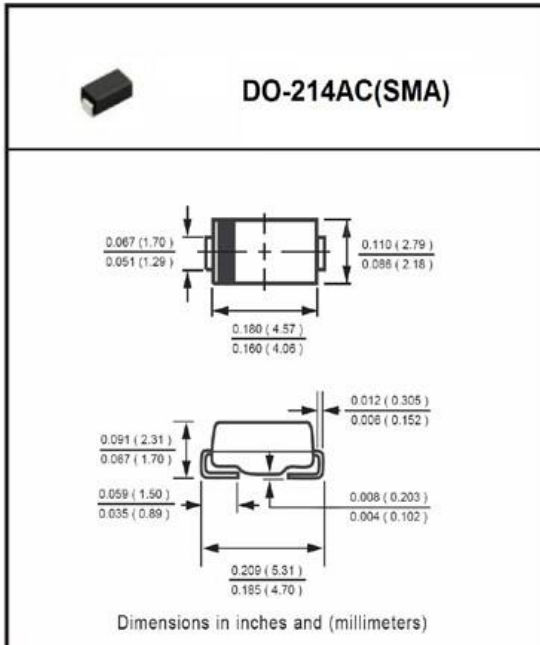


表面安装稳压二极管
稳压电压3.3--200 V
功率1.5 W

Surface Mount Zener Rectifiers
Reverse Voltage 3.3 to 200 V
Power 1.5W



Features

- Plastic package has Underwriters Laboratory Flammability Classification 94 V-0
- For surface mounted applications
- Low Zener impedance
- Low regulation factor
- High temperature soldering guaranteed: 260°C/10 seconds at terminal
- Lead and body according with RoHS standard
- Standard voltage tolerance is 10 %, Suffix A $\pm 5\%$
- AEC-Q101 qualified

Mechanical Data

- Case: Molded plastic body
- Terminals: Solder plated
- Polarity: Color band denotes cathode end
- Mounting Position: Any

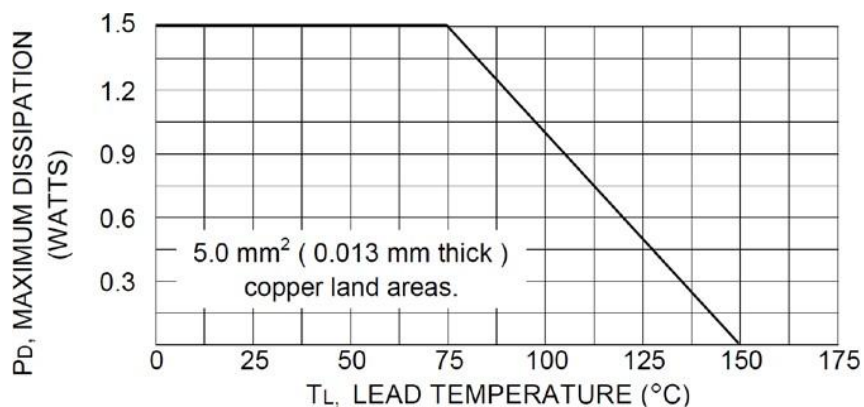
Maximum Ratings $T_{amb} = 25^\circ\text{C}$, unless otherwise specified

Rating	Symbol	Value	Unit
DC Power Dissipation at $T_L = 50^\circ\text{C}$ (Note1)	P_D	1.5	Watts
Maximum Forward Voltage at $I_F = 200\text{ mA}$	V_F	1.5	Volts
Junction Temperature Range	T_J	- 55 to + 150	$^\circ\text{C}$
Storage Temperature Range	T_s	- 55 to + 150	$^\circ\text{C}$

Note :

(1) T_L = Lead temperature at 5.0 mm^2 (0.013 mm thick) copper land areas.

Fig. 1 POWER TEMPERATURE DERATING CURVE

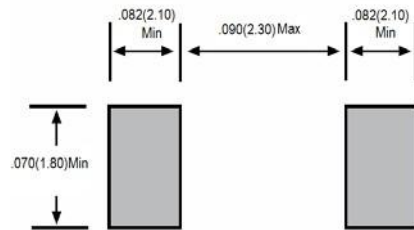


Rating at 25 °C ambient temperature unless otherwise specified

TYPE	Nominal Zener Voltage		Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current
	Vz @ IzT	IzT	ZzT @ IzT	Zzk @ Izk	Izk	Ir @ Vr		IzM
	(V)	(mA)	(Ω)	(Ω)	(mA)	(μA)	(V)	(mA)
SMAJ5913B	3.3	113.6	10	500	1.0	100	1.0	454
SMAJ5914B	3.6	104.2	9.0	500	1.0	75	1.0	416
SMAJ5915B	3.9	96.1	7.5	500	1.0	25	1.0	384
SMAJ5916B	4.3	87.2	6.0	500	1.0	5.0	1.0	348
SMAJ5917B	4.7	79.8	5.0	500	1.0	5.0	1.5	319
SMAJ5918B	5.1	73.5	4.0	400	1.0	5.0	2.0	294
SMAJ5919B	5.6	66.9	2.0	300	1.0	5.0	3.0	267
SMAJ5920B	6.2	60.5	2.0	200	1.0	5.0	4.0	241
SMAJ5921B	6.8	55.1	2.5	200	1.0	5.0	5.2	220
SMAJ5922B	7.5	50.0	3.0	400	0.5	5.0	6.0	200
SMAJ5923B	8.2	45.7	3.5	400	0.5	5.0	6.5	182
SMAJ5924B	9.1	41.2	4.0	500	0.5	5.0	7.0	164
SMAJ5925B	10	37.5	4.5	500	0.25	5.0	8.0	150
SMAJ5926B	11	34.1	5.5	550	0.25	1.0	8.4	136
SMAJ5927B	12	31.2	6.5	550	0.25	1.0	9.1	125
SMAJ5928B	13	28.8	7.0	550	0.25	1.0	9.9	115
SMAJ5929B	15	25.0	9.0	600	0.25	1.0	11.4	100
SMAJ5930B	16	23.4	10	600	0.25	1.0	12.2	93
SMAJ5931B	18	20.8	12	650	0.25	1.0	13.7	83
SMAJ5932B	20	18.7	14	650	0.25	1.0	15.2	75
SMAJ5933B	22	17.0	17.5	650	0.25	1.0	16.7	68
SMAJ5934B	24	15.6	19	700	0.25	1.0	18.2	62
SMAJ5935B	27	13.9	23	700	0.25	1.0	20.6	55
SMAJ5936B	30	12.5	26	750	0.25	1.0	22.8	50
SMAJ5937B	33	11.4	33	800	0.25	1.0	25.1	45
SMAJ5938B	36	10.4	38	850	0.25	1.0	27.4	41
SMAJ5939B	39	9.6	45	900	0.25	1.0	29.7	38
SMAJ5940B	43	8.7	53	950	0.25	1.0	32.7	34
SMAJ5941B	47	8.0	67	1000	0.25	1.0	35.8	31
SMAJ5942B	51	7.3	70	1100	0.25	1.0	38.8	29
SMAJ5943B	56	6.7	86	1300	0.25	1.0	42.6	26
SMAJ5944B	62	6.0	100	1500	0.25	1.0	47.1	24
SMAJ5945B	68	5.5	120	1700	0.25	1.0	51.7	22
SMAJ5946B	75	5.0	140	2000	0.25	1.0	56.0	20
SMAJ5947B	82	4.6	160	2500	0.25	1.0	62.2	18
SMAJ5948B	91	4.1	200	3000	0.25	1.0	69.2	16
SMAJ5949B	100	3.7	250	3100	0.25	1.0	76.0	15
SMAJ5950B	110	3.4	300	4000	0.25	1.0	83.6	13
SMAJ5951B	120	3.1	380	4500	0.25	1.0	91.2	12
SMAJ5952B	130	2.9	450	5000	0.25	1.0	98.8	11
SMAJ5953B	150	2.5	600	6000	0.25	1.0	114.0	10
SMAJ5954B	160	2.3	700	6500	0.25	1.0	121.6	9.0
SMAJ5955B	180	2.1	900	7000	0.25	1.0	136.8	8.0
SMAJ5956B	200	1.9	1900	9990	0.25	1.0	152.0	7.0

Note : (1) The type number listed have a standard tolerance on the nominal zener voltage of $\pm 5\%$, altered the fourth number of type from " 5 " for $\pm 5\%$ tolerance to be " 0 " for $\pm 10\%$ tolerance.
 (2) " SMAJ " will be omitted in marking on the diode.

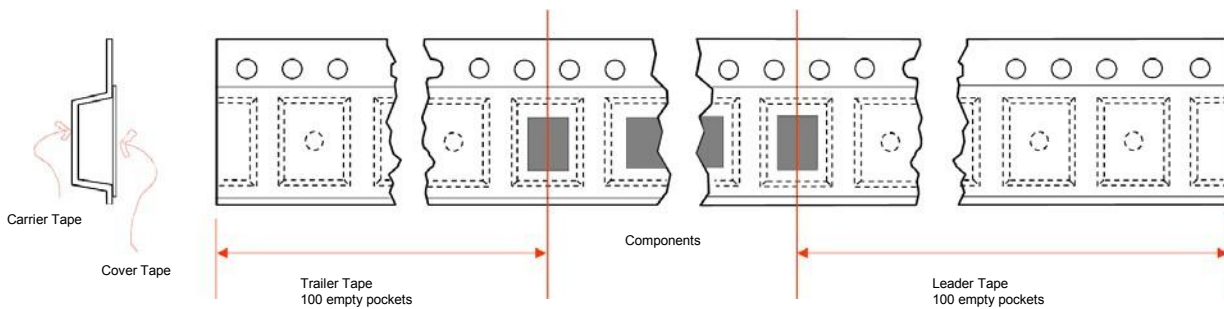
Mounting Pad Layout



Packing

Part number	Component Package	Quantity	Packaging Option
SMAJ5913B-SMAJ5956BQ	DO-214AC SMA	5000	Tape & Reel – 12mm/13" tape

DO-214AC(SMA) Tape Leader and Trailer Configuration



Tape and Reel Specification

