



1SMA2EZ3V6- 1SMA2EZ200

SURFACE MOUNT SILICON ZENER DIODES

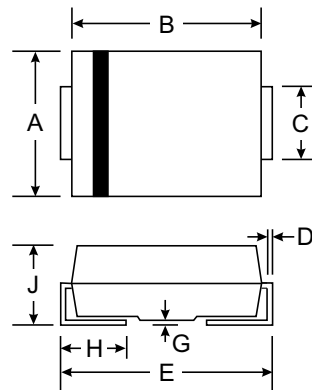
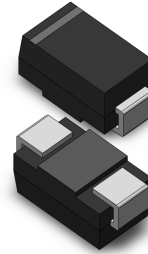
VOLTAGE RANGE: 3.6 - 200 V
POWER: 2.0Watts

Features

- Complete Voltage Range 3.6 to 200 Volts
- High peak reverse power dissipation
- High reliability
- Low leakage current

Mechanical Data

- Case : SMA (DO-214AC) Molded plastic
- Epoxy : UL94V-O rate flame retardant
- Lead : Lead formed for Surface mount
- Polarity : Color band denotes cathode end
- Mounting position : Any
- Weight : 0.064 gram



SMA(DO-214AC)		
Dim	Min	Max
A	2.29	2.92
B	4.00	4.60
C	1.27	1.63
D	0.15	0.31
E	4.80	5.59
G	0.10	0.20
H	0.76	1.52
J	2.01	2.62

All Dimensions in mm

MAXIMUM RATINGS

Rating at 25 °C ambient temperature unless otherwise specified

Rating	Symbol	Value	Unit
DC Power Dissipation at T _L = 75 °C (Note1)	P _D	2.0	Watts
Maximum Forward Voltage at I _F = 200 mA	V _F	1.2	Volts
Maximum Thermal Resistance Junction to Ambient Air (Note2)	R _{θJA}	60	K / W
Junction Temperature Range	T _J	- 55 to + 175	°C
Storage Temperature Range	T _s	- 55 to + 175	°C

Note :

- (1) T_L = Lead temperature at 3/8 " (9.5mm) from body
- (2) Valid provided that leads are kept at ambient temperature at a distance of 10 mm from case.



ELECTRICAL CHARACTERISTICS 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)
1SMA2EZ3V6	3.6	139	5.0	400	1.0	80	1.0	504
1SMA2EZ3V9	3.9	128	5.0	400	1.0	30	1.0	468
1SMA2EZ4V3	4.3	116	4.5	400	1.0	20	1.0	434
1SMA2EZ4V7	4.7	106	4.5	550	1.0	5.0	1.0	386
1SMA2EZ5V1	5.1	98.0	3.5	600	1.0	5.0	1.0	356
1SMA2EZ5V6	5.6	89.5	2.5	500	1.0	5.0	2.0	324
1SMA2EZ6V2	6.2	80.5	1.5	700	1.0	5.0	3.0	292
1SMA2EZ6V8	6.8	73.5	2.0	700	1.0	5.0	4.0	266
1SMA2EZ7V5	7.5	66.5	2.0	700	0.5	50	5.0	242
1SMA2EZ8V2	8.2	61.0	2.3	700	0.5	50	6.0	220
1SMA2EZ9V1	9.1	55.0	2.5	700	0.5	50	7.0	200
1SMA2EZ10	10	50.0	3.5	700	0.25	50	7.6	182
1SMA2EZ11	11	45.5	4.0	700	0.25	50	8.4	166
1SMA2EZ12	12	41.5	4.5	700	0.25	1.0	9.1	152
1SMA2EZ13	13	38.5	5.0	700	0.25	0.5	9.9	138
1SMA2EZ14	14	35.7	5.5	700	0.25	0.5	10.6	130
1SMA2EZ15	15	33.4	7.0	700	0.25	0.5	11.4	122
1SMA2EZ16	16	31.2	8.0	700	0.25	0.5	12.2	114
1SMA2EZ17	17	29.4	9.0	750	0.25	0.5	13.0	107
1SMA2EZ18	18	27.8	10	750	0.25	0.5	13.7	100
1SMA2EZ19	19	26.3	11	750	0.25	0.5	14.4	95
1SMA2EZ20	20	25.0	11	750	0.25	0.5	15.2	90
1SMA2EZ22	22	22.8	12	750	0.25	0.5	16.7	82
1SMA2EZ24	24	20.8	13	750	0.25	0.5	18.2	76
1SMA2EZ27	27	18.5	18	750	0.25	0.5	20.6	68
1SMA2EZ30	30	16.6	20	1000	0.25	0.5	22.5	60
1SMA2EZ33	33	15.1	23	1000	0.25	0.5	25.1	55
1SMA2EZ36	36	13.9	25	1000	0.25	0.5	27.4	50
1SMA2EZ39	39	12.8	30	1000	0.25	0.5	29.7	47
1SMA2EZ43	43	11.6	35	1500	0.25	0.5	32.7	43
1SMA2EZ47	47	10.6	40	1500	0.25	0.5	35.8	39
1SMA2EZ51	51	9.8	48	1500	0.25	0.5	38.8	36
1SMA2EZ56	56	9.0	55	2000	0.25	0.5	42.6	32
1SMA2EZ62	62	8.1	60	2000	0.25	0.5	47.1	29
1SMA2EZ68	68	7.4	75	2000	0.25	0.5	51.7	27
1SMA2EZ75	75	6.7	90	2000	0.25	0.5	56.0	24
1SMA2EZ82	82	6.1	100	3000	0.25	0.5	62.2	22
1SMA2EZ91	91	5.5	125	3000	0.25	0.5	69.2	20
1SMA2EZ100	100	5.0	175	3000	0.25	0.5	76.0	18
1SMA2EZ110	110	4.5	250	4000	0.25	0.5	83.6	17
1SMA2EZ120	120	4.2	325	4500	0.25	0.5	91.2	15
1SMA2EZ130	130	3.8	400	5000	0.25	0.5	98.8	14
1SMA2EZ140	140	3.6	500	5500	0.25	0.5	106.4	13
1SMA2EZ150	150	3.3	575	6000	0.25	0.5	114.0	12
1SMA2EZ160	160	3.1	650	6500	0.25	0.5	121.6	11
1SMA2EZ170	170	2.9	675	7000	0.25	0.5	130.4	11
1SMA2EZ180	180	2.8	725	7000	0.25	0.5	136.8	10
1SMA2EZ190	190	2.6	825	8000	0.25	0.5	144.8	10
1SMA2EZ200	200	2.5	900	8000	0.25	0.5	152.0	9.0