BZG01C3.3 - BZG01C100

SURFACE MOUNT SILICON ZENER DIODES

VOLTAGE RANGE: 3.3V - 100V
POWER: 1.0Watts

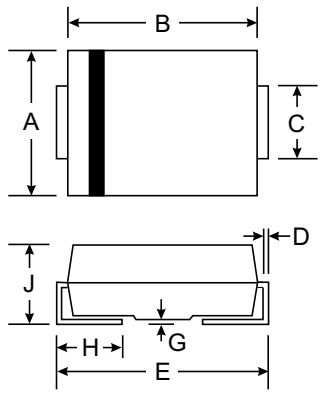
Features

- Complete voltage range 3.3 to100 volts
- High peak reverse power dissipation
- High reliability
- Low leakage current
- Standard zener voltage tolerance is ± 5%.

Mechanical Data

- Case : SMA(DO-214AC)Moldedplastic
- Epoxy : UL94V-O rate flameretardant
- Lead : Lead formed forSurfacemount
- Polarity : Colorbanddenotescathodeend
- Mountingposition : Any
- Weight: 0.064 grams (approx.)

RoHS COMPLIANT



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 @ T_A = 25°C unless otherwise specified

Rating	Symbol	Value	Unit
DC Power Dissipation at T_L = 75 °C (Note1)	P_D	1.0	W
Maximum Forward Voltage at I_F = 200 mA	V_F	1.2	V
Junction Temperature Range	T_J	- 55 to + 150	°C
Storage Temperature Range	Ts	- 55 to + 150	°C

Note :
(1) P.C.B. Mounted on 0.31x0.31x0.08" (8x8x2mm) copper areas pads.

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	Maximum Surge Current
	V_Z (1) @ I_{ZT}	I_{ZT}	Z_{ZT} @ I_{ZT}	Z_{ZK} @ I_{ZK}	I_{ZK}	I_R @ V_R		I_{ZM}	I_{RM}(2)
	(V)	(mA)	(Ω)	(Ω)	(mA)	(μA)	(V)	(mA)	
BZG01C3.3	3.3	76.0	10	400	1.0	100	1.0	276	1380
BZG01C3.6	3.6	69.0	10	400	1.0	100	1.0	252	1260
BZG01C3.9	3.9	64.0	9.0	400	1.0	50	1.0	234	1190
BZG01C4.3	4.3	58.0	9.0	400	1.0	10	1.0	217	1070
BZG01C4.7	4.7	53.0	8.0	500	1.0	10	1.0	193	970
BZG01C5.1	5.1	49.0	7.0	550	1.0	10	1.0	178	890
BZG01C5.6	5.6	45.0	5.0	600	1.0	10	2.0	162	810
BZG01C6.2	6.2	41.0	2.0	700	1.0	10	3.0	146	730
BZG01C6.8	6.8	37.0	3.5	700	1.0	10	4.0	133	660
BZG01C7.5	7.5	34.0	4.0	700	0.5	10	5.0	121	605
BZG01C8.2	8.2	31.0	4.5	700	0.5	10	6.0	110	550
BZG01C9.1	9.1	28.0	5.0	700	0.5	10	7.0	100	500
BZG01C10	10	25.0	7.0	700	0.25	10	7.6	91	454
BZG01C11	11	23.0	8.0	700	0.25	5.0	8.4	83	414
BZG01C12	12	21.0	9.0	700	0.25	5.0	9.1	76	380
BZG01C13	13	19.0	10	700	0.25	5.0	9.9	69	344
BZG01C15	15	17.0	14	700	0.25	5.0	11.4	61	305
BZG01C16	16	15.5	16	700	0.25	5.0	12.2	57	285
BZG01C18	18	14.0	20	750	0.25	5.0	13.7	50	250
BZG01C20	20	12.5	22	750	0.25	5.0	15.2	45	225
BZG01C22	22	11.5	23	750	0.25	5.0	16.7	41	205
BZG01C24	24	10.5	25	750	0.25	5.0	18.2	38	190
BZG01C27	27	9.5	35	750	0.25	5.0	20.6	34	170
BZG01C30	30	8.5	40	1000	0.25	5.0	22.8	30	150
BZG01C33	33	7.5	45	1000	0.25	5.0	25.1	27	135
BZG01C36	36	7.0	50	1000	0.25	5.0	27.4	25	125
BZG01C39	39	6.5	60	1000	0.25	5.0	29.7	23	115
BZG01C43	43	6.0	70	1500	0.25	5.0	32.7	22	110
BZG01C47	47	5.5	80	1500	0.25	5.0	35.8	19	95
BZG01C51	51	5.0	95	1500	0.25	5.0	38.8	18	90
BZG01C56	56	4.5	110	2000	0.25	5.0	42.6	16	80
BZG01C62	62	4.0	125	2000	0.25	5.0	47.1	14	70
BZG01C68	68	3.7	150	2000	0.25	5.0	51.7	13	65
BZG01C75	75	3.3	175	2000	0.25	5.0	56.0	12	60
BZG01C82	82	3.0	200	3000	0.25	5.0	62.2	11	55
BZG01C91	91	2.8	250	3000	0.25	5.0	69.2	10	50
BZG01C100	100	2.5	350	3000	0.25	5.0	76.0	9.0	45

Notes :

(1) Standard voltage tolerance is± 5%, No Suffix ± 10%

(2) Surge current is a non-repetitive, 8.3ms pulse width square wave or equivalent sine-wave superimposed on IZT per JEDEC Method

(3) " SML " will be omitted in marking on the diode.