

BZX1. 5C3V3 THRU BZX1. 5C 200

1. 5W SILICON PLANAR ZENER DIODES

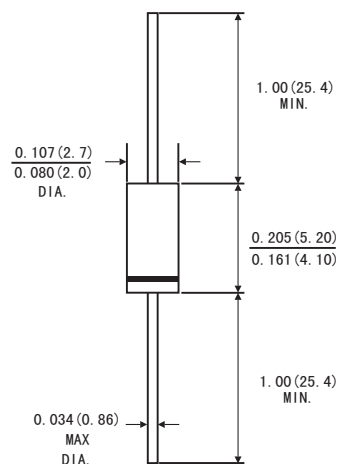
FEATURES

- High temperature soldering guaranteed: 260°C/10 seconds at terminals
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC

MECHANICAL DATA

- Case: DO-41 glass case
- Weight: Approx. 0.35 gram

DO-41(GLASS)



Dimensions in inches and (millimeters)

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

	Symbols	Value	Units
Zener current see table "Characteristics"			
Power dissipation at TA=25°C	P _{tot}	1.5 ¹⁾	W
Junction temperature	T _J	175	°C
Storage temperature range	T _{STG}	-65 to +175	°C

1) Valid provided that a distance of 8mm from case is kept at ambient temperature

ELECTRICAL CHARACTERISTICS (TA=25°C)

	Symbols	Min	Typ	Max	Units
Forward voltage at I _F =200mA	V _F			1.2	V

1) Valid provided that a distance of 8mm from case is kept at ambient temperature

BZX1. 5C3V3 ... BZX1. 5C200 SILICON PLANAR ZENER DIODES

Type	Zener Voltage Range ¹⁾			Dynamic Resistance			Reverse leakage current (I _R at V _R)		Maximum DC Zener Current ²⁾
	V _{znom} V	V _{ZT} at I _{ZT} V	I _{ZT} mA	Ohm at I _{ZT}	Ohm at I _{ZK}	I _{ZK} mA	I _R μA	V _R V	I _{ZM} mA
BZX1.5C3V3	3.3	3.1...3.5	113.6	10	500	1	100	1	454
BZX1.5C3V6	3.6	3.4...3.8	104.2	9	500	1	75	1	416
BZX1.5C3V9	3.9	3.7...4.1	96.1	7.5	500	1	25	1	384
BZX1.5C4V3	4.3	4.0...4.6	87.2	6	500	1	5	1	348
BZX1.5C4V7	4.7	4.4...5.0	79.8	5	500	1	5	1.5	319
BZX1.5C5V1	5.1	4.8...5.4	73.5	4	350	1	5	2	294
BZX1.5C5V6	5.6	5.2...6.0	66.9	2	250	1	5	3	267
BZX1.5C6V2	6.2	5.8...6.6	60.5	2	200	1	5	4	241
BZX1.5C6V8	6.8	6.4...7.2	55.1	2.5	200	1	5	5.2	220
BZX1.5C7V5	7.5	7.0...7.9	50	3	400	0.5	5	6.8	200
BZX1.5C8V2	8.2	7.7...8.7	45.7	3.5	400	0.5	5	6.5	182
BZX1.5C9V1	9.1	8.5...9.6	41.2	4	500	0.5	5	7	164
BZX1.5C10	10	9.4...10.6	37.5	4.5	500	0.25	5	8	150
BZX1.5C11	11	10.4...11.6	34.1	5.5	550	0.25	1	8.4	136
BZX1.5C12	12	11.4...12.7	31.2	6.5	550	0.25	1	9.1	125
BZX1.5C13	13	12.4...14.1	28.8	7	550	0.25	1	9.9	115
BZX1.5C15	15	13.8...15.6	25	9	550	0.25	1	11.4	100
BZX1.5C16	16	15.3...17.1	23.4	10	600	0.25	1	12.2	93
BZX1.5C18	18	16.8...19.1	20.8	12	600	0.25	1	13.7	83
BZX1.5C20	20	18.8...21.2	18.7	14	650	0.25	1	15.2	75
BZX1.5C22	22	20.8...23.3	17	17.5	650	0.25	1	16.7	68
BZX1.5C24	24	22.8...25.6	15.6	19	700	0.25	1	18.2	62
BZX1.5C27	27	25.1...28.9	13.9	23	700	0.25	1	20.6	55
BZX1.5C30	30	28...32	12.5	26	750	0.25	1	22.8	50
BZX1.5C33	33	31...35	11.4	33	800	0.25	1	25.1	45
BZX1.5C36	36	34...38	10.4	38	850	0.25	1	27.4	41
BZX1.5C39	39	37...41	9.6	45	900	0.25	1	29.7	38
BZX1.5C43	43	40...46	8.7	53	950	0.25	1	32.7	34
BZX1.5C47	47	44...50	8	67	1,000	0.25	1	35.8	31
BZX1.5C51	51	48...54	7.3	70	1,100	0.25	1	38.8	29
BZX1.5C56	56	52...60	6.7	86	1,300	0.25	1	42.6	26
BZX1.5C62	62	58...66	6	100	1,500	0.25	1	44.1	24
BZX1.5C68	68	64...72	5.5	120	1,700	0.25	1	51.7	22
BZX1.5C75	75	70...79	5	140	2,000	0.25	1	56	20
BZX1.5C82	82	77...87	4.6	160	2,500	0.25	1	62.2	18
BZX1.5C91	91	85...96	4.1	200	3,000	0.25	1	69.2	16
BZX1.5C100	100	94...106	3.7	250	3,100	0.25	1	76	15
BZX1.5C110	110	104...116	3.4	300	4,000	0.25	1	83.6	13
BZX1.5C120	120	114...127	2.1	380	4,500	0.25	1	91.2	12
BZX1.5C130	130	124...141	2.9	450	5,000	0.25	1	98.8	11
BZX1.5C150	150	138...156	2.5	600	6,000	0.25	1	114	10
BZX1.5C160	160	153...171	2.3	700	6,500	0.25	1	121.6	9
BZX1.5C180	180	168...191	2.1	900	7,000	0.25	1	136.8	8
BZX1.5C200	200	188...212	1.9	1,200	8,000	0.25	1	152	7

Note 1) Tested with pulse tp=20ms 2) Valid provided that leads are kept at ambient temperature at a distance of 8mm from case