

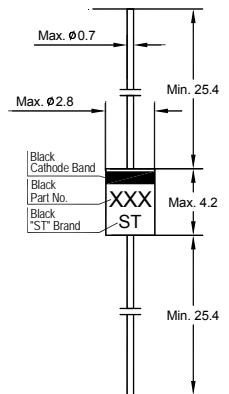
BZX2CxxxPF

Silicon Planar Power Zener Diodes

for use in stabilizing and clipping circuits with high power rating. The Zener voltages are graded according to the international E24 standard. Other voltage tolerances and higher Zener voltages are upon request.

Features

- Lead Free



Glass Case DO-41
Dimensions in mm

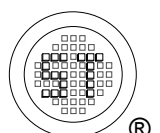
Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Power Dissipation ¹⁾	P_{tot}	2	W
Junction Temperature	T_j	175	$^\circ\text{C}$
Storage Temperature Range	T_{Stg}	- 65 to + 175	$^\circ\text{C}$

Thermal Characteristics

Parameter	Symbol	Max.	Unit
Thermal Resistance Junction to Ambient ¹⁾	$R_{\theta\text{JA}}$	75	$^\circ\text{C/W}$

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



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Characteristics at $T_j = 25^\circ\text{C}$ (V_F max : 1.2 V at $I_F = 200$ mA)

Type	Zener Voltage Range ¹⁾			Maximum Dynamic Resistance			Maximum Reverse Leakage Current		Maximum DC Zener Current ²⁾ I_{ZM} (mA)
	V_{Znom} (V)	V_{ZT} (V)	I_{ZT} (mA)	(Ω) at I_{ZT}	(Ω) at I_{ZK}	I_{ZK} (mA)	I_R (μA)	V_R (V)	
BZX2C3V6PF	3.6	3.4...3.8	139	5	400	1	80	1	504
BZX2C3V9PF	3.9	3.7...4.1	128	5	400	1	30	1	468
BZX2C4V3PF	4.3	4...4.6	116	4.5	400	1	20	1	434
BZX2C4V7PF	4.7	4.4...5	106	4.5	550	1	5	1	386
BZX2C5V1PF	5.1	4.8...5.4	98	3.5	600	1	5	1	356
BZX2C5V6PF	5.6	5.2...6	89.5	2.5	650	1	5	2	324
BZX2C6V2PF	6.2	5.8...6.6	80.5	1.5	700	1	5	3	292
BZX2C6V8PF	6.8	6.4...7.2	73.5	2	700	1	5	4	266
BZX2C7V5PF	7.5	7...7.9	66.5	2	700	0.5	5	5	242
BZX2C8V2PF	8.2	7.7...8.7	61	2.3	700	0.5	5	6	220
BZX2C9V1PF	9.1	8.5...9.6	55	2.5	700	0.5	2	7	200
BZX2C10PF	10	9.4...10.6	50	3.5	700	0.25	3	7.6	182
BZX2C11PF	11	10.4...11.6	45.5	4	700	0.25	1	8.4	166
BZX2C12PF	12	11.4...12.7	41.5	4.5	700	0.25	1	9.1	152
BZX2C13PF	13	12.4...14.1	38.5	5	700	0.25	0.5	9.9	138
BZX2C15PF	15	13.8...15.6	33.4	7	700	0.25	0.5	11.4	122
BZX2C16PF	16	15.3...17.1	31.2	8	700	0.25	0.5	12.2	114
BZX2C18PF	18	16.8...19.1	27.8	10	750	0.25	0.5	13.7	100
BZX2C20PF	20	18.8...21.2	25	11	750	0.25	0.5	15.2	90
BZX2C22PF	22	20.8...23.3	22.8	12	750	0.25	0.5	16.7	82
BZX2C24PF	24	22.8...25.6	20.8	13	750	0.25	0.5	18.2	76
BZX2C27PF	27	25.1...28.9	18.5	18	750	0.25	0.5	20.6	68
BZX2C30PF	30	28...32	16.6	20	1000	0.25	0.5	22.5	60
BZX2C33PF	33	31...35	15.1	23	1000	0.25	0.5	25.1	55
BZX2C36PF	36	34...38	13.9	25	1000	0.25	0.5	27.4	50
BZX2C39PF	39	37...41	12.8	30	1000	0.25	0.5	29.7	47
BZX2C43PF	43	40...46	11.6	35	1500	0.25	0.5	32.7	43

¹⁾ Tested with pulses $t_p = 20$ ms.

²⁾ Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case.

Power Derating Curve

