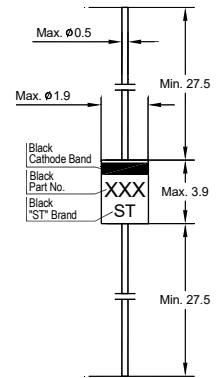


BZX55CxxxPF-M

Silicon Planar Zener Diodes

Features

- Lead Free



Glass Case DO-35
Dimensions in mm

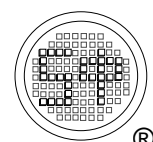
Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Power Dissipation ¹⁾	P_{tot}	500	mW
Junction Temperature	T_j	175	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 175	$^\circ\text{C}$

Thermal Characteristics

Parameter	Symbol	Max.	Unit
Thermal Resistance Junction to Ambient ¹⁾	$R_{\theta JA}$	300	$^\circ\text{C/W}$

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

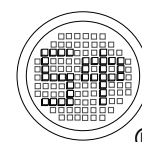


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Characteristics at $T_a = 25^\circ\text{C}$ (V_F max : 1 V at $I_F = 100$ mA)

Type	Zener Voltage Range ¹⁾				Zener Impedance				Reverse Current	
	V _{Znom} (V)	V _{ZT}		at I _{ZT}	Z _{ZT}	at I _{ZT}	Z _{ZK}	at I _{ZK}	I _R	at V _R
		Min. (V)	Max. (V)	(mA)	Max. (Ω)	(mA)	Max. (Ω)	(mA)	Max. (μA)	(V)
BZX55C2V0PF	2.0	1.8	2.15	5	85	5	600	1	100	1
BZX55C2V2PF	2.2	2.08	2.33	5	85	5	600	1	75	1
BZX55C2V4PF	2.4	2.28	2.56	5	85	5	600	1	50	1
BZX55C2V7PF	2.7	2.5	2.9	5	85	5	600	1	10	1
BZX55C3V0PF	3.0	2.8	3.2	5	85	5	600	1	4	1
BZX55C3V3PF	3.3	3.1	3.5	5	85	5	600	1	2	1
BZX55C3V6PF	3.6	3.4	3.8	5	85	5	600	1	2	1
BZX55C3V9PF	3.9	3.7	4.1	5	85	5	600	1	2	1
BZX55C4V3PF	4.3	4	4.6	5	75	5	600	1	1	1
BZX55C4V7PF	4.7	4.4	5	5	60	5	600	1	0.5	1
BZX55C5V1PF	5.1	4.8	5.4	5	35	5	550	1	0.1	1
BZX55C5V6PF	5.6	5.2	6	5	25	5	450	1	0.1	1
BZX55C6V2PF	6.2	5.8	6.6	5	10	5	200	1	0.1	2
BZX55C6V8PF	6.8	6.4	7.2	5	8	5	150	1	0.1	3
BZX55C7V5PF	7.5	7	7.9	5	7	5	50	1	0.1	5
BZX55C8V2PF	8.2	7.7	8.7	5	7	5	50	1	0.1	6.2
BZX55C9V1PF	9.1	8.5	9.6	5	10	5	50	1	0.1	6.8
BZX55C10PF	10	9.4	10.6	5	15	5	70	1	0.1	7.5
BZX55C11PF	11	10.4	11.6	5	20	5	70	1	0.1	8.2
BZX55C12PF	12	11.4	12.7	5	20	5	90	1	0.1	9.1
BZX55C13PF	13	12.4	14.1	5	26	5	110	1	0.1	10
BZX55C15PF	15	13.8	15.6	5	30	5	110	1	0.1	11
BZX55C16PF	16	15.3	17.1	5	40	5	170	1	0.1	12
BZX55C18PF	18	16.8	19.1	5	50	5	170	1	0.1	13
BZX55C20PF	20	18.8	21.2	5	55	5	220	1	0.1	15
BZX55C22PF	22	20.8	23.3	5	55	5	220	1	0.1	16
BZX55C24PF	24	22.8	25.6	5	80	5	220	1	0.1	18
BZX55C27PF	27	25.1	28.9	5	80	5	220	1	0.1	20
BZX55C30PF	30	28	32	5	80	5	220	1	0.1	22
BZX55C33PF	33	31	35	5	80	5	220	1	0.1	24
BZX55C36PF	36	34	38	5	80	5	220	1	0.1	27
BZX55C39PF	39	37	41	2.5	90	2.5	500	0.5	0.1	30
BZX55C43PF	43	40	46	2.5	90	2.5	500	0.5	0.1	33
BZX55C47PF	47	44	50	2.5	110	2.5	600	0.5	0.1	36

¹⁾ Tested with pulses $t_p = 20$ ms.



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Electrical Characteristics Curves

Fig 1. Zener Characteristics Curve

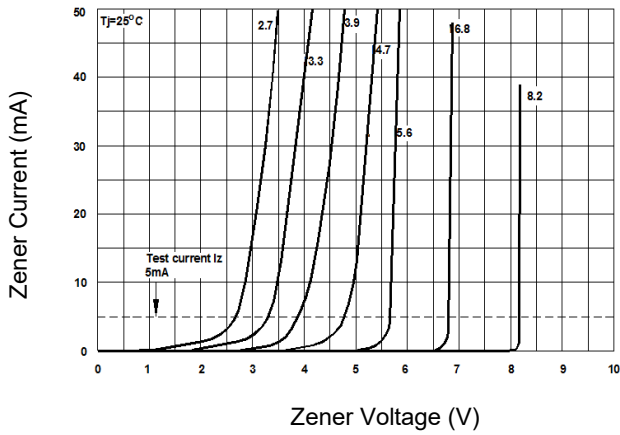


Fig 2. Zener Characteristics Curve

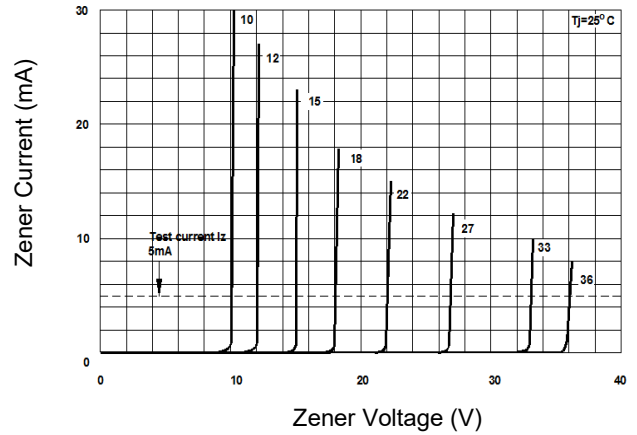


Fig 3. Zener Characteristics Curve

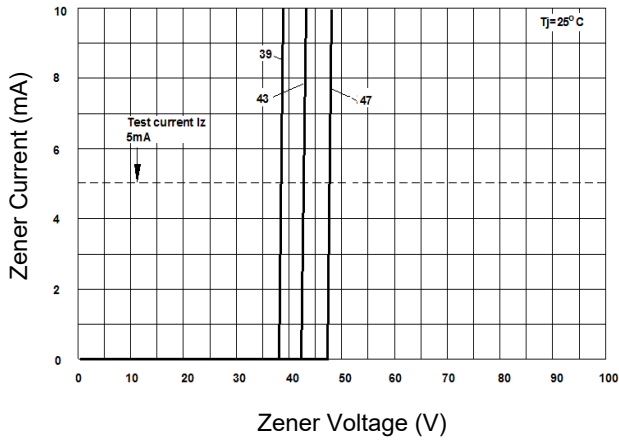


Fig 4. Forward Characteristics Curve

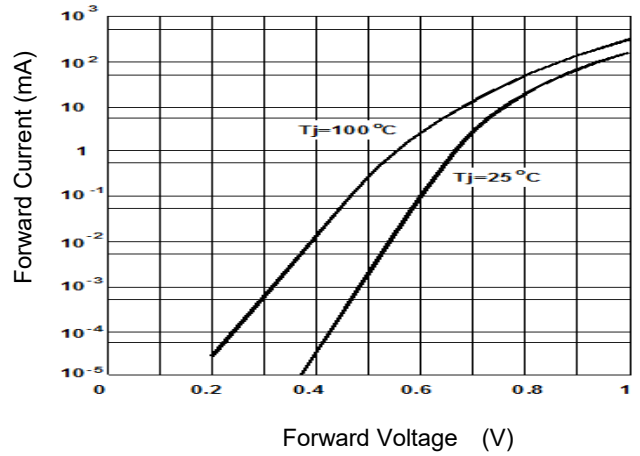


Fig 5. Power Derating Curve

