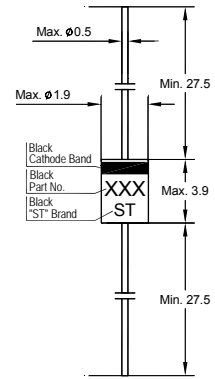


# BZX55C-M

## Silicon Planar Zener Diodes

注：用 SL-B6 晶片



Glass Case DO-35  
Dimensions in mm

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

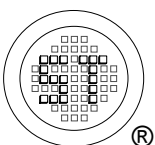
Parameter	Symbol	Value	Unit
Power Dissipation	$P_{\text{tot}}$	500 <sup>1)</sup>	mW
Junction Temperature	$T_j$	175	$^\circ\text{C}$
Storage Temperature Range	$T_{\text{stg}}$	- 55 to + 175	$^\circ\text{C}$

<sup>1)</sup> Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case

### Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Max.	Unit
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	0.3 <sup>1)</sup>	K/mW
Forward Voltage at $I_F = 100\text{ mA}$	$V_F$	1	V

<sup>1)</sup> Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case



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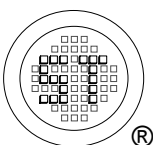
Dated: 28/11/2011 Rev: 02

# BZX55C-M

## Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Type	Zener Voltage Range <sup>1)</sup>				Zener Impedance				Reverse Current	
	$V_{Znom}$	$V_{ZT}$		at $I_{ZT}$	$Z_{ZT}$	at $I_{ZT}$	$Z_{ZK}$	at $I_{ZK}$	$I_R$	at $V_R$
	(V)	Min. (V)	Max. (V)	(mA)	Max. ( $\Omega$ )	(mA)	Max. ( $\Omega$ )	(mA)	Max. ( $\mu\text{A}$ )	(V)
BZX55C2V0	2.0	1.8	2.15	5	85	5	600	1	100	1
BZX55C2V2	2.2	2.08	2.33	5	85	5	600	1	75	1
BZX55C2V4	2.4	2.28	2.56	5	85	5	600	1	50	1
BZX55C2V7	2.7	2.5	2.9	5	85	5	600	1	10	1
BZX55C3V0	3.0	2.8	3.2	5	85	5	600	1	4	1
BZX55C3V3	3.3	3.1	3.5	5	85	5	600	1	2	1
BZX55C3V6	3.6	3.4	3.8	5	85	5	600	1	2	1
BZX55C3V9	3.9	3.7	4.1	5	85	5	600	1	2	1
BZX55C4V3	4.3	4	4.6	5	75	5	600	1	1	1
BZX55C4V7	4.7	4.4	5	5	60	5	600	1	0.5	1
BZX55C5V1	5.1	4.8	5.4	5	35	5	550	1	0.1	1
BZX55C5V6	5.6	5.2	6	5	25	5	450	1	0.1	1
BZX55C6V2	6.2	5.8	6.6	5	10	5	200	1	0.1	2
BZX55C6V8	6.8	6.4	7.2	5	8	5	150	1	0.1	3
BZX55C7V5	7.5	7	7.9	5	7	5	50	1	0.1	5
BZX55C8V2	8.2	7.7	8.7	5	7	5	50	1	0.1	6.2
BZX55C9V1	9.1	8.5	9.6	5	10	5	50	1	0.1	6.8
BZX55C10	10	9.4	10.6	5	15	5	70	1	0.1	7.5
BZX55C11	11	10.4	11.6	5	20	5	70	1	0.1	8.2
BZX55C12	12	11.4	12.7	5	20	5	90	1	0.1	9.1
BZX55C13	13	12.4	14.1	5	26	5	110	1	0.1	10
BZX55C15	15	13.8	15.6	5	30	5	110	1	0.1	11
BZX55C16	16	15.3	17.1	5	40	5	170	1	0.1	12
BZX55C18	18	16.8	19.1	5	50	5	170	1	0.1	13
BZX55C20	20	18.8	21.2	5	55	5	220	1	0.1	15
BZX55C22	22	20.8	23.3	5	55	5	220	1	0.1	16
BZX55C24	24	22.8	25.6	5	80	5	220	1	0.1	18
BZX55C27	27	25.1	28.9	5	80	5	220	1	0.1	20
BZX55C30	30	28	32	5	80	5	220	1	0.1	22
BZX55C33	33	31	35	5	80	5	220	1	0.1	24
BZX55C36	36	34	38	5	80	5	220	1	0.1	27
BZX55C39	39	37	41	2.5	90	2.5	500	0.5	0.1	30
BZX55C43	43	40	46	2.5	90	2.5	500	0.5	0.1	33
BZX55C47	47	44	50	2.5	110	2.5	600	0.5	0.1	36

<sup>1)</sup> Tested with pulses  $t_p = 20\text{ ms}$ .



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