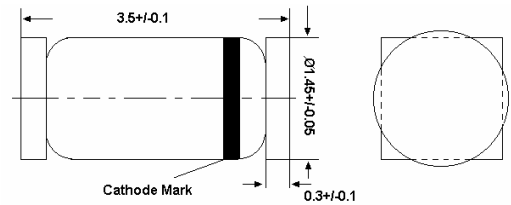


# BZT...HS Series

## SILICON PLANAR ZENER DIODES

LS-34



Glass case QuadromELF  
Dimensions in mm

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

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

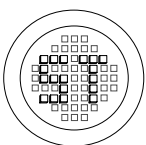
### Characteristics $T_a = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Max.	Unit
Thermal Resistance Junction to Ambient Air	$R_{\text{thA}}$	0.3	K/mW

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

Type	Zener Voltage			Dynamic Resistance		Reverse Leakage Current ( $I_R$ at $V_R$ )	
	Min. (V)	Max. (V)	$I_{ZT}$ (mA)	( $\Omega$ ) Max.	$I_{ZT}$ (mA)	$I_R$ ( $\mu\text{A}$ ) Max.	$V_R$ (V)
BZT2V0HS	1.88	2.2	5	100	5	120	0.5
BZT2V0HSA	1.88	2.1					
BZT2V0HSB	2.02	2.2					
BZT2V2HS	2.12	2.41	5	100	5	120	0.7
BZT2V2HSA	2.12	2.3					
BZT2V2HSB	2.22	2.41					
BZT2V4HS	2.33	2.63	5	100	5	120	1
BZT2V4HSA	2.33	2.52					
BZT2V4HSB	2.43	2.63					
BZT2V7HS	2.54	2.91	5	110	5	100	1
BZT2V7HSA	2.54	2.75					
BZT2V7HSB	2.69	2.91					
BZT3V0HS	2.85	3.22	5	120	5	50	1
BZT3V0HSA	2.85	3.07					
BZT3V0HSB	3.01	3.22					

Tested with pulse  $t_p = 20\text{ ms}$



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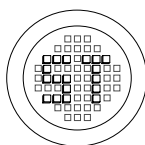
Dated : 14/09/2006

# BZT...HS Series

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

Type	Zener Voltage			Dynamic Resistance		Reverse Leakage Current ( $I_R$ at $V_R$ )	
	Min. (V)	Max. (V)	$I_{ZT}$ (mA)	( $\Omega$ ) Max.	$I_{ZT}$ (mA)	$I_R$ ( $\mu\text{A}$ ) Max.	$V_R$ (V)
BZT3V3HS	3.16	3.53	5	120	5	20	1
BZT3V3HSA	3.16	3.38					
BZT3V3HSB	3.32	3.53					
BZT3V6HS	3.47	3.83	5	120	5	10	1
BZT3V6HSA	3.47	3.68					
BZT3V6HSB	3.62	3.83					
BZT3V9HS	3.77	4.14	5	120	5	5	1
BZT3V9HSA	3.77	3.98					
BZT3V9HSB	3.92	4.14					
BZT4V3HS	4.05	4.53	5	120	5	5	1
BZT4V3HSA	4.05	4.26					
BZT4V3HSB	4.2	4.4					
BZT4V3HSC	4.34	4.53					
BZT4V7HS	4.47	4.91	5	100	5	5	1
BZT4V7HSA	4.47	4.65					
BZT4V7HSB	4.59	4.77					
BZT4V7HSC	4.71	4.91					
BZT5V1HS	4.85	5.35	5	70	5	5	1.5
BZT5V1HSA	4.85	5.03					
BZT5V1HSB	4.97	5.18					
BZT5V1HSC	5.12	5.35					
BZT5V6HS	5.29	5.88	5	40	5	5	2.5
BZT5V6HSA	5.29	5.52					
BZT5V6HSB	5.46	5.7					
BZT5V6HSC	5.64	5.88					
BZT6V2HS	5.81	6.4	5	30	5	5	3
BZT6V2HSA	5.81	6.06					
BZT6V2HSB	5.99	6.24					
BZT6V2HSC	6.16	6.4					
BZT6V8HS	6.32	6.97	5	25	5	2	3.5
BZT6V8HSA	6.32	6.59					
BZT6V8HSB	6.52	6.79					
BZT6V8HSC	6.7	6.97					
BZT7V5HS	6.88	7.64	5	25	5	0.5	4
BZT7V5HSA	6.88	7.19					
BZT7V5HSB	7.11	7.41					
BZT7V5HSC	7.33	7.64					

Tested with pulse  $t_p = 20\text{ ms}$



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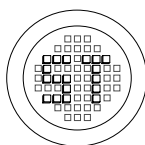
Dated : 14/09/2006

# BZT...HS Series

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

Type	Zener Voltage			Dynamic Resistance		Reverse Leakage Current ( $I_R$ at $V_R$ )	
	Min. (V)	Max. (V)	$I_{ZT}$ (mA)	( $\Omega$ ) Max.	$I_{ZT}$ (mA)	$I_R$ ( $\mu\text{A}$ ) Max.	$V_R$ (V)
BZT8V2HS	7.56	8.41	5	20	5	0.5	5
BZT8V2HSA	7.56	7.9					
BZT8V2HSB	7.82	8.15					
BZT8V2HSC	8.07	8.41					
BZT9V1HS	8.33	9.29	5	20	5	0.5	6
BZT9V1HSA	8.33	8.7					
BZT9V1HSB	8.61	8.99					
BZT9V1HSC	8.89	9.29					
BZT10HS	9.19	10.3	5	20	5	0.2	7
BZT10HSA	9.19	9.59					
BZT10HSB	9.48	9.9					
BZT10HSC	9.82	10.3					
BZT11HS	10.18	11.26	5	20	5	0.2	8
BZT11HSA	10.18	10.63					
BZT11HSB	10.5	10.95					
BZT11HSC	10.82	11.26					
BZT12HS	11.13	12.3	5	25	5	0.2	9
BZT12HSA	11.13	11.63					
BZT12HSB	11.5	11.92					
BZT12HSC	11.8	12.3					
BZT13HS	12.18	13.62	5	25	5	0.2	10
BZT13HSA	12.18	12.71					
BZT13HSB	12.59	13.16					
BZT13HSC	13.03	13.62					
BZT15HS	13.48	15.02	5	25	5	0.2	11
BZT15HSA	13.48	14.09					
BZT15HSB	13.95	14.56					
BZT15HSC	14.42	15.02					
BZT16HS	14.87	16.5	5	25	5	0.2	12
BZT16HSA	14.87	15.5					
BZT16HSB	15.33	15.96					
BZT16HSC	15.79	16.5					
BZT18HS	16.34	18.3	5	30	5	0.2	13
BZT18HSA	16.34	17.06					
BZT18HSB	16.9	17.67					
BZT18HSC	17.51	18.3					
BZT20HS	18.14	20.45	5	30	5	0.2	15
BZT20HSA	18.14	18.96					
BZT20HSB	18.8	19.68					
BZT20HSC	19.52	20.45					

Tested with pulse  $t_p = 20\text{ ms}$



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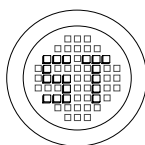
Dated : 14/09/2006

# BZT...HS Series

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

Type	Zener Voltage			Dynamic Resistance		Reverse Leakage Current ( $I_R$ at $V_R$ )	
	Min. (V)	Max. (V)	$I_{ZT}$ (mA)	( $\Omega$ ) Max.	$I_{ZT}$ (mA)	$I_R$ ( $\mu\text{A}$ ) Max.	$V_R$ (V)
BZT22HS	20.23	22.61	5	30	5	0.2	17
BZT22HSA	20.23	21.08					
BZT22HSB	20.76	21.65					
BZT22HSC	21.22	22.09					
BZT22HSD	21.68	22.61					
BZT24HS	22.26	24.81	5	35	5	0.2	19
BZT24HSA	22.26	23.12					
BZT24HSB	22.75	23.73					
BZT24HSC	23.29	24.27					
BZT24HSD	23.81	24.81					
BZT27HS	24.26	27.64	5	45	5	0.2	21
BZT27HSA	24.26	25.52					
BZT27HSB	24.97	26.26					
BZT27HSC	25.63	26.95					
BZT27HSD	26.29	27.64					
BZT30HS	26.99	30.51	5	55	5	0.2	23
BZT30HSA	26.99	28.39					
BZT30HSB	27.7	29.13					
BZT30HSC	28.36	29.82					
BZT30HSD	29.02	30.51					
BZT33HS	29.68	33.11	5	65	5	0.2	25
BZT33HSA	29.68	31.22					
BZT33HSB	30.32	31.88					
BZT33HSC	30.9	32.5					
BZT33HSD	31.49	33.11					
BZT36HS	32.14	35.77	5	75	5	0.2	27
BZT36HSA	32.14	33.79					
BZT36HSB	32.79	34.49					
BZT36HSC	33.4	35.13					
BZT36HSD	34.01	35.77					
BZT39HS	34.68	38.52	5	85	5	0.2	30
BZT39HSA	34.68	36.47					
BZT39HSB	35.36	37.19					
BZT39HSC	36	37.85					
BZT39HSD	36.63	38.52					

Tested with pulse  $t_p = 20\text{ ms}$



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