

# SOT23



## HYPERABRUPT TUNER DIODES

Pinout : 1-Cathode, 3-Anode

Type	Reverse Breakdown Voltage $V_R$ V	Nominal Capacitance at $V_R=2V$ , $f=1MHz$ $C_{tot}$			Capacitance Ratio at $f=1MHz$ $C_2/C_{20}$		Q at $V_R=3V$ $f=50MHz$ Typ	Device Code
		Min pF	Typ pF	Max pF	Min	Max		
ZC830A	25	9.0	10.0	11.0	4.5	6.0	300	J1A
ZC831A	25	13.5	15.0	16.5	4.5	6.0	300	J3A
ZC832A	25	19.8	22.0	24.2	5.0	6.5	200	J4A
ZC833A	25	29.7	33.0	36.3	5.0	6.5	200	J2A
ZC834A	25	42.3	47.0	51.7	5.0	6.5	200	J5A
ZC835A	25	61.2	68.0	74.8	5.0	6.5	100	J6A
ZC836A	25	90.0	100.0	110.0	5.0	6.5	100	J7A

Devices are also available with 5% and 20% tolerances. No suffix =  $\pm 20\%$  (eg. ZC830)  
Suffix B= $\pm 5\%$  (eg. ZC830B)

## HYPERABRUPT TUNER DIODES

Pinout : 1-Cathode, 3-Anode

Type	Reverse Breakdown Voltage $V_R$ V	Capacitance at $V_R=4V$		Capacitance at $V_R=20V$		Figure of merit minimum Q at $V_R=4V$ $f=50MHz$ Typ	Device Code
		Min pF	Max pF	Min pF	Max pF		
ZC840	22	2.5	3.3	0.6	0.85	600	V05
ZC841	22	4.5	5.5	0.9	1.20	600	V07

## HYPERABRUPT TUNER DIODES

Pinout : 1-Cathode, 3-Anode

Type	Breakdown Voltage V	Capacitance @ $V_R=1Volts$	Capacitance @ $V_R=2.5 Volts$		Capacitance @ $V_R=4 Volts$	Figure of merit minimum Q $V_R=4 Volts$ , $f=50MHz$	Device Code
		Min. pF	Min. pF	Max. pF	Max. pF		
ZC930	12	8.70	4.30	5.50	2.90	350	V15
ZC931	12	14.50	6.50	7.80	4.00	300	V14
ZC932	12	17.00	8.50	10.50	5.50	200	V13
ZC933	12	42.00	18.00	27.00	12.00	150	V17
ZC933A	12	42.00	20.25	24.75	12.00	150	A17
ZC934	12	95.00	40.00	65.00	25.00	80	V16
ZC934A	12	95.00	47.25	57.75	25.00	80	A16

## SILICON ABRUPT TUNER DIODES

Pinout : 1-Cathode, 3-Anode

Type	Reverse breakdown voltage $V_R$ Volts Max	Nominal capacitance at $V_R=4V$ , $f=1MHz$ $C_{tot}$ pF			Capacitance ratio $f=1MHz$ $C_2/C_{30}$	Q at $V_R=4V$ $f=50MHz$	$P_{tot}$ mW
		min	typ	max			
FMMV2101	30	6.12	6.8	7.48	2.5	450	330
FMMV2102	30	7.3	8.2	9.0	2.6	450	330
FMMV2103	30	9.0	10.0	11.0	2.6	400	330
FMMV2104	30	10.8	12.0	13.2	2.6	400	330
FMMV2105	30	13.5	15.0	16.5	2.6	400	330
FMMV2106	30	16.2	18.0	19.8	2.7	350	330
FMMV2107	30	19.8	22.0	24.2	2.7	350	330
FMMV2108	30	24.3	27.0	29.7	2.7	300	330
FMMV2109	30	29.7	33.0	36.3	2.7	280	330