

SOT-23 TRANSISTORS & DIODES

SWITCHING TRANSISTORS (NPN)

Type	V_{CBO} Volts	V_{CEO} Volts	I_C mA	P_{tot} mW	h_{FE}		$V_{CE(sat)}$		f_T typ. MHz
					min./max.	at I_C/V_{CE} mA/volts	max. at I_C/I_B Volts	max. at I_C/I_B mA	
BSS79B	75	40	800	350	40/120	150/10	0.3	150/15	250
BSS79C	75	40	800	350	100/300	150/10	0.3	150/15	250
FMMT2222A	75	40	600	350	100/300	150/10	0.3	150/15	300
FMMT4400	60	40	600	350	50/150	150/1	0.4	150/15	200
FMMT4401	60	40	600	350	100/300	150/1	0.4	150/15	200
BSS66	60	40	100	350	50/150	10/1	0.2	10/1	250
BSS67	60	40	100	350	100/300	10/1	0.2	10/1	300
FMMT3903	60	40	200	350	50/150	10/1	0.2	10/1	250
FMMT3904	60	40	200	350	100/300	10/1	0.2	10/1	300
FMMT2222	60	30	600	350	100/300	150/10	0.4	150/15	250
FMMT4123	40	30	200	350	50/150	2/1	0.3	50/5	250
FMMT4124	30	25	200	350	120/360	2/1	0.3	50/5	300
FMMT2369A	40	15	200	350	40/120	10/1	0.2	10/1	500
FMMT2369	40	15	200	350	40/120	10/1	0.25	10/1	500
BSV52	20	12	100	350	40/120	10/1	0.25	10/1	500

SMALL SIGNAL MOSFETS (SOTFETs*) (N-Channel)

Part Number	BV_{DSS} V	I_D mA	I_{DM} A	P_D mW	V min.	$V_{GS(th)}$		I_D mA	$R_{DS(on)}$		V_{GS} V
						at max	at max		max. at	I_D mA	
ZVN3320F	200	60	1	350	1	3	1	1	25	100	10
BSS123	100	170	0.68	360	0.8	2.8	1	1	6	100	10
ZVN3310F	100	100	2	350	0.8	2.4	1	1	10	500	10
ZVN4106F	60	200	3	350	1.3	3	1	1	2.5	500	10
ZVN3306F	60	150	3	350	0.8	2.4	1	1	5	500	10
2N7002	60	115	2	350	1	2.5	0.25	1	7.5	50	5
VN10LF	60	150	3	350	0.8	2.5	1	1	7.5	200	5
BS170F	60	150	3	350	0.8	3	1	1	5	200	10
BSS138§	50	200	0.8	360	0.5	1.5	1	1	3.5	200	5

SMALL SIGNAL MOSFETS (SOTFETs*) (P-Channel)

Part Number	BV_{DSS} V	I_D mA	I_{DM} A	P_D mW	V min.	$V_{GS(th)}$		I_D mA	$R_{DS(on)}$		V_{GS} V
						at max	at max		max. at	I_D mA	
ZVP1320F	-200	-35	-0.4	350	-1.5	-3.5	-1	-1	80	-50	-10
ZVP3310F	-100	-75	-1.2	350	-1.5	-3.5	-1	-1	20	-150	-10
ZVP3306F	-60	-90	-1.6	350	-1.5	-3.5	-1	-1	14	-200	-10
BSS84§	-50	-130	-0.52	360	-0.8	-2.0	-1	-1	10	-100	-5
BS250F	-45	-90	-1.6	350	-1.5	-3.5	-1	-1	14	-200	-10

*SOTFETs is a trademark of Zetex plc

§New product information

SELECTION TABLES

TABLE 4: SOT-23 MOSFETS 'SOTFETS'

Part number	BV _{DSS}	I _D	I _{DM}	V _{GS(th)} at I _D			R _{DS(on)} at I _D			P _D	Package marking
	V	mA	A	Min.	Max.	mA	Max.	mA	V _{GS} V	W	
N-channel											
ZVN3320F	200	60	1	1	3	1	25	100	10	250	MU
BSS123	100	170	0.68	0.8	2.8	1	6	100	10	360	SA
ZVN3310F	100	100	2	0.8	2.4	1	10	500	10	250	MF
ZVN4106F	60	200	3	1.3	3	1	5	200	5	250	MZ
ZVN3306F	60	150	3	0.8	2.4	1	5	500	10	250	MC
2N7002	60	115	2	1	2.5	0.25	7.5	50	5	350	702
VN10LF	60	150	3	0.8	2.5	1	7.5	200	5	250	MY
BS170F	60	150	3	0.8	3	1	5	200	10	250	MV
BSS138†	50	200	0.8	0.5	1.5	1	3.5	200	5	360	SS
P-channel											
ZVP1320F	−200	−35	−0.4	−1.5	−3.5	−1	80	−50	−10	250	MT
ZVP3310F	−100	−75	−1.2	−1.5	−3.5	−1	20	−150	−10	250	MR
ZVP3306F	−60	−90	−1.6	−1.5	−3.5	−1	14	−200	−10	250	ML
BSS84†	−50	−130	−0.52	−0.8	−2.0	−1	10	−100	−5	360	SP
BS250F	−45	−90	−1.6	−1.5	−3.5	−1	14	−200	−10	250	MX

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†New product information

TABLE 5: QUAD MOSFET ARRAYS

Part number	BV_{DSS}	I_D	I_{DM}	$V_{GS(th)}$ at I_D			$R_{DS(on)}$ at I_D			P_D	Package
	V	A	A	Min.	Max.	mA	Max.	mA	V_{GS} V	W	
N-channel											
ZVN2110E	100	0.32	3	0.8	2.4	1	4	1000	10	0.85	14 lead DIL
ZVN4206E	60	0.60	3	1.3	3.0	1	1.5	500	5	0.85	14 lead DIL
ZVN2106E	60	0.45	3	0.8	2.4	1	2	100	10	0.85	14 lead DIL
ZVN3306E	60	0.27	3	0.8	2.4	1	5	500	10	0.85	14 lead DIL
P-channel											
ZVP2110E	-100	-0.23	-3	-1.5	-3.5	-1	8	-375	-10	0.85	14 lead DIL
ZVP2106E	-60	-0.28	-3	-1.5	-3.5	-1	5	-500	-10	0.85	14 lead DIL
ZVP3306E	-60	-0.16	-1.6	-1.5	-3.5	-1	14	-200	-10	0.85	14 lead DIL