

# SURFACE MOUNT PRODUCTS — SOT 23 (continued)

## RF SOT-23 Transistors

Pinout: 1-Base, 2-Emitter, 3-Collector

### NPN

Device	Marking	f <sub>T</sub>			NF			Mag			f (MHz)
		Typ (GHz)	I <sub>C</sub> (mA)	V <sub>CF</sub> (V)	Typ (dB)	@I <sub>C</sub> (mA)	V <sub>CE</sub> (V)	Typ (dB)	@I <sub>C</sub> (mA)	V <sub>CE</sub> (V)	
MMBR930	7C	5.5	30	5.0	1.9	2.0	5.0	15.5	30	5.0	500
BFR92	P1	4.5	14	10	3.0	3.0	1.5	—	—	—	—
BFR92A	P2	5.0	14	10	1.8	4.0	10	—	—	—	—
BFR93	R1	4.5	30	5.0	3.0	2.0	5.0	—	—	—	—
BFR93A	R2	5.0	30	5.0	1.6	4.0	8.0	—	—	—	—
MMBR931	7D	3.5	1.0	1.0	2.7	0.5	1.0	18	1.0	1.0	500
MMBR2060	7E	2.5	20	10	2.0	1.5	10	13	20	10	500
MMBR5179	7H	1.5	5.0	6.0	4.0	1.5	6.0	11.0	5.0	6.0	450
MMBR920	7B	5.0	14	10	2.4	2.0	10	17	14	10	1000
MMBR901	7A	4.0	15	10	2.3	5.0	6.0	10.5	15	10	1000
MMBR5031	7G	2.0	5.0	6.0	1.9	1.0	6.0	13.5	5.0	6.0	450
MMBR2857	7K	1.0	4.0	10	—	—	—	—	—	—	—
BFS17	E1	1.0	2.0	5.0	5.0	2.0	5.0	—	—	—	30
BFS175	E5	1.0	2.0	5.0	5.0	2.0	5.0	—	—	—	30

### PNP

MMBR4957	7F	2.0	2.0	10	2.5	2.0	10	14.5	2.0	10	450
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## RF Junction Field-Effect SOT-23 Transistors

Pinout: 1-Base, 2-Emitter, 3-Collector

### N-CHANNEL

Device	Marking	NF		Y <sub>fs</sub>			V <sub>(BR)GSS</sub>
		Typ (dB)	f (MHz)	Min (mmhos)	Max (mmhos)	V <sub>DS</sub> (V)	
MMBFU310	6C	1.5	100	10	18	10	-25
MMBF5484	6B	2.0	100	3.0	6.0	15	-25
MMBF5486	6H	2.0	100	4.0	8.0	15	-25
MMBF4416	6A	2.0	100	4.5	7.5	15	-30
MMBFJ310	6T	4.0	450	8.0	18	10	-25

## General-Purpose Field-Effect SOT-23 Transistors

Pinout: 1-Base, 2-Emitter, 3-Collector

### N-CHANNEL

Device	Marking	V <sub>(BR)GSS</sub>	Y <sub>fs</sub>			I <sub>DSS</sub>	
			Min (mmhos)	Max (mmhos)	V <sub>DS</sub> (V)	Min (mA)	Max (mA)
MMBF-5457	6D	-25	1.0	5.0	15	1.0	5.0
BFR30	M1	-25	1.0	4.0	10	4.0	10
BFR31	M2	-25	1.5	4.5	10	1.0	5.0
MMBF5459	6L	-25	2.0	6.0	15	4.0	16

### P-CHANNEL

MMBF5460	6E	40	1.0	4.0	15	1.0	5.0
MMBFJ175	6W	30V	—	—	—	-7.0	-60.0

## Chopper/Switches, Junction Field-Effect SOT-23 Transistors

### N-CHANNEL

Device	Marking	r <sub>DS(on)</sub> Max (Ohms)	t <sub>off</sub> Max (ns)	V <sub>(BR)GSS</sub>	V <sub>(GS) off</sub>		I <sub>DSS</sub>	
					Min (V)	Max (V)	Min (mA)	Max (mA)
MMBF4391	6J	30	20	-30	-4.0	-10	50	150
MMBF4860	6F	40	50	-30	-2.0	-6.0	20	100
MMBF4392	6K	60	35	-30	-2.0	-5.0	25	75
MMBF4393	6G	100	55	-30	-0.5	-3.0	5.0	30