

## TRANSISTORS

### SMALL & LARGE SIGNAL LOW FREQUENCY



Order No	Description	Case	Each	10+Ea
BC327	Driver PNP 45v 800mA 500mW	TO-92	\$0.25	\$0.20
BC337	Driver NPN 45v 800mA 360mW	TO-92	\$0.25	\$0.20
BC547B	Small Sig NPN 45v 100mA 500mW	TO-92	<b>\$0.25</b>	<b>\$0.20</b>
BC549C	Small Sig NPN 30v 100mA 500mW	TO-92	\$0.25	\$0.20
BC558	Small Sig PNP 45v 100mA 500mW	TO-92	\$0.25	\$0.20
BC640	Small Sig PNP 100v 1A 800mW	TO-92	\$0.45	\$0.36
BC847B	Small Sig NPN 45v 100mA 200mW <b>SMD</b>	SOT-23	\$0.20	\$0.16
BC849C	Small Sig NPN 30v 100mA 250mW <b>SMD</b>	SOT-23	\$0.20	\$0.16
BC857	Small Sig PNP 45v 100mA 200mW <b>SMD</b>	SOT-23	\$0.20	\$0.16
BD682	Small Sig PNP 100v 4A 36W Darlington	TO-126	\$1.25	\$1.00
TIP42C	Large Sig PNP 100v 6A	TOP66	\$1.25	\$1.125
2N2219A	NPN 60v 800mA 800mW	TO-5	\$2.50	-
MJD122G	NPN 100v 8A 20W Darlington <b>SMD</b>	DPak	\$0.85	-
MJD127G	PNP 100v 8A 20W Darlington <b>SMD</b>	DPak	\$0.85	-

### SMALL SIGNAL RADIO FREQUENCY

Order No	Description	Case	Each	10+Ea
2N2222A	RF NPN 40v 1A, 625mW 300MHz, NF 4dB	TO-18	<b>\$1.00</b>	<b>\$0.90</b>
2N2907A	RF PNP 40v 800mA 625mW 200MHz	TO-18	<b>\$1.10</b>	<b>\$1.00</b>
BFG235	RF NPN 15v 300mA 2W FT5.5GHz <b>SMD</b> NF 2.8dB Gain 12dB	SOT-223	\$1.75	\$1.40
BFQ19	RF NPN 15v 100mA 1Watt FT5.5GHz <b>SMD</b> ( Replaces BFR96S )	SOT-89	\$0.65	\$0.52
BFQ149	RF PNP 15v 100mA 1Watt FT5.0GHz <b>SMD</b> ( complementary of BFQ19 )	SOT-89	\$1.25	\$1.00
BFR92A	RF NPN 15v 25mA 300mW 5GHz <b>SMD</b>	SOT-23	\$0.60	\$0.48

Order No	Description	Case	Each	10+Ea
BFR93A	RF NPN 12v 35mA 250mW 5GHz <b>SMD</b> ( Replaces BFR91A )	SOT-23	\$0.60	\$0.48
MMBT5179	RF NPN 12v 50mA 225mW 2GHz, (SMD version of MPS5179, PN5179)	SOT-23	\$0.35	\$0.28
MPS5179	RF NPN 12v 50mA 350mW 2GHz ( may substitute 2N5179, PN5179 )	TO-92	\$0.60	\$0.48
MPSH10	RF NPN 25v 50mA 350mW 625MHz ( May Substitute 2N5770, PN918, 2N3563, PN3563 )	TO-92	\$0.35	\$0.28
PN2222A	RF NPN 40v 1A, 625mW 300MHz, NF 4dB ( may substitute 2N2222A, MPS2222A )	TO-92	<b>\$0.30</b>	<b>\$0.24</b>
PN2907A	RF PNP 40v 800mA 625mW 200MHz ( may substitute 2N2907A, MPS2907A )	TO-92	<b>\$0.30</b>	<b>\$0.24</b>

### LARGE SIGNAL RADIO FREQUENCY



Order No	Description	Case	Each	10+Ea
RD16HFF1	RF MOSFET 30MHz 16W Gain 16dB, 12.5V	TO-220S	<b>\$5.75</b>	-
RD100HFF1	RF MOSFET 30MHz 100W Ceramic Gain 11.5dB, 12.5V	CERAMIC	<b>\$34.60</b>	-

### POWER MOSFETS

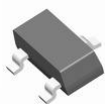


The Fairchild NDS9400A is suitable for powersupply switching of current up to 2.5A, & voltages of up to 30volts. The NDS9400A is used in the Mini-Kits 3.4GHz poweramplifier Kit to switch power to the GaAs MMICs Drain supply. The NDT2955 & NDT3055L are suitable for general purpose power switching.

Order No	Description	Case	Each	10+Ea
NDS9400A	Single P Channel ID 2.5A VDS 30V	SO-8	<b>\$1.60</b>	<b>\$1.45</b>
NDT2955	MosFET P Channel ID -2.5A VDS -60V	SOT-223	\$0.95	
NDT3055L	MosFET N Channel ID 4A VDS 60V	SOT-223	\$0.90	

## FIELD EFFECT TRANSISTORS

### FETS



SOT-23



SOT-143



TO-92

Order No	Description	Case	Each	10+Ea
<b>2N7000</b>	N-Ch FET Switch 60v, id 200mA	TO-92	\$0.55	\$0.44
<b>2N7002</b>	N-Ch FET Switch 60v, id 115mA	SOT-23	\$0.25	\$0.20
<b>J271</b>	P-Ch Switching JFET 30v 50mA ( Good RF Linearity ) <b>Use as J310 complementary</b>	TO-92	\$0.85	\$0.68
<b>J310</b>	N-Ch RF JFET 350MHz 25v 10mA ( Good RF Linearity ) <b>Replaces MPF102</b>	TO-92	\$0.80	\$0.64
<b>J310/SOT23</b>	N-Ch RF JFET 350MHz SMD version of J310	SOT-23	\$1.00	\$0.80

### MOSFETS



SOT-103  
SOT-37  
X-pack



SOT-143

The



TO-72



TO-92

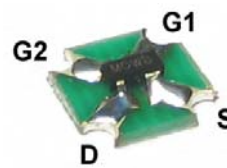
BF988/998 is suitable for VHF preamplifiers, & VHF/UHF low noise gain controlled amplifiers. It is an ideal replacement for the BF981 with the only difference being the lower VDS of 12volts. The 3SK45 can be used to replace the 3SK40 used in the older Yaesu Radios. Only low quantities of the 3SK MosFETs are available.

Order No	Description	Case	Each	10+ea
<b>BF988A</b>	N-Ch DGate MosFET <b>For Preamp repairs use BF998R-M</b>	SOT-103	<b>OBSOLETE</b>	
<b>BF998</b>	N-Ch DGate MosFET NF 1dB @ 800MHz, 12v 30mA <b>Used in EME173 Kits</b>	SOT-143	\$0.85	\$0.68
<b>BF998R</b>	N-Ch DGate MosFET NF 1dB @ 800MHz, 12v 30mA <b>Reverse Leads</b>	SOT-143	\$0.85	\$0.68
<b>2SK125</b>	N-Ch J FET 100MHz NF 1.8dB@ 200MHz VDS 25v, id 10mA <b>Yaesu FT102</b>	TO-92	\$3.80	-
<b>3SK45</b>	N-Ch DGate MosFET	TO-72	\$4.30	-

## BF980 / 981 / 988 REPLACEMENT



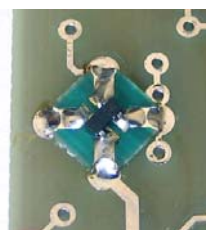
BF998-M



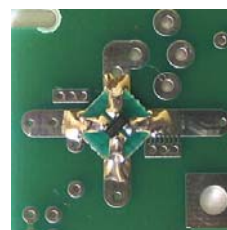
BF998R-M

Mini-Kits has developed a replacement package for many of the obsolete BF980, 981 & 988 MesFET type devices. A small 7x7mm PC board has been designed to suit the mass produced BF998 & BF998R, ( reverse leads ) MesFET devices. Most older X-pack devices were soldered directly to the tracks on the board, so it has been designed with plated corner half vias for easy soldering. Wires can also be soldered directly to the board & bent to suit through hole PC board mounting.

Order No	Description	Case	Each
<b>BF998-M</b>	N-Ch DGate MosFET NF 1dB @ 800MHz, 12v 30mA	BF988-M	\$3.50
<b>BF998R-M</b>	N-Ch DGate MosFET NF 1dB @ 800MHz, 12v 30mA <b>Replacement for the EME117 &amp; 157 Kits</b>	BF988R-M	\$3.50
<b>EME180</b>	PC Board without BF998 /998R		\$1.50



EME117 KIT MOD



EME157 KIT MOD

For the Data please refer to the BF988 Data sheet