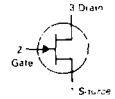


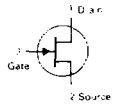
BF246,A,B,C

CASE 29-04, STYLE 22
TO-92 (TO-226AA)



BF247,A,B,C

CASE 29-04, STYLE 5
TO-92 (TO-226AA)



**JFETs
SWITCHING**

N-CHANNEL - DEPLETION

Refer to MPF4391 for graphs.

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Drain-Source Voltage	V_{DS}	± 25	Vdc
Drain-Gate Voltage	V_{DG}	25	Vdc
Gate-Source Voltage	V_{GS}	25	Vdc
Drain Current	I_D	100	mAdc
Forward Gate Current	$I_{G(f)}$	10	mAdc
Total Device Dissipation @ $T_A = 25^\circ\text{C}$ Derate above 25°C	P_D	350 2.8	mW mW/ $^\circ\text{C}$
Storage Channel Temperature Range	T_{stg}	-65 to +150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ unless otherwise noted.)

Characteristic	Symbol	Min	Typ	Max	Unit
OFF CHARACTERISTICS					
Gate-Source Breakdown Voltage ($I_G = 1 \mu\text{A}$, $V_{DS} = 0$)	$V_{(BR)GSS}$	25	—	—	V
Gate-Source ($V_{DS} = 15 \text{ V}$, $I_D = 200 \mu\text{A}$)	V_{GS}	-0.5 -1.5 -3 -5.5	— — — —	-14 -4 -7 -12	V
Gate-Source Cutoff Voltage ($V_{DS} = 15 \text{ V}$, $I_D = 10 \text{ nA}$)	$V_{GS(off)}$	0.6	—	14.5	V
Gate Cutoff Current ($V_{GS} = 15 \text{ V}$, $V_{DS} = 0$)	I_{GSS}	—	—	5	nA
ON CHARACTERISTICS					
Zero-Gate Voltage Drain Current ($V_{DS} = 15 \text{ V}$, $V_{GS} = 0$)	I_{DSS}	30 30 60 110		250 80 140 250	mA
SMALL-SIGNAL CHARACTERISTICS					
Forward Transfer Admittance ($V_{DS} = 15 \text{ V}$, $I_D = 10 \text{ mA}$, $f = 1 \text{ kHz}$)	Y_{fs}	8	23		mmhos
Reverse Transfer Capacitance ($V_{DS} = 15 \text{ V}$, $I_D = 10 \text{ mA}$, $f = 1 \text{ kHz}$)	C_{rss}		3.3		pF
Input Capacitance ($V_{DS} = 15 \text{ V}$, $I_D = 10 \text{ mA}$, $f = 1 \text{ MHz}$)	C_{in}		6		pF
Output Capacitance ($V_{DS} = 15 \text{ V}$, $I_D = 10 \text{ mA}$, $f = 1 \text{ MHz}$)	C_{out}		5		pF
Cutoff Frequency ($V_{DS} = 15 \text{ V}$, $V_{GS} = 0$)	$F_t(Y_{fs})$		450		MHz