

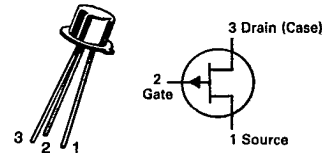
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MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Drain-Source Voltage	V_{DS}	30	Vdc
Drain-Gate Voltage	V_{DG}	30	Vdc
Gate-Source Voltage	V_{GS}	30	Vdc
Drain Current	I_D	50	mA
Total Device Dissipation @ $T_A = 25^\circ\text{C}$ Derate above 25°C	P_D	300 1.7	mW mW/ $^\circ\text{C}$
Storage Temperature Range	T_{stg}	-60 to +200	$^\circ\text{C}$

2N2843
2N2844

CASE 22-03, STYLE 12
TO-18 (TO-206AA)



JFETs
GENERAL PURPOSE
P-CHANNEL — DEPLETION

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

Characteristic	Symbol	Min	Max	Unit
OFF CHARACTERISTICS				
Gate-Source Breakdown Voltage ($I_G = 1.0 \mu\text{A}$)	$V_{(BR)GSS}$	30	—	Vdc
Gate Reverse Current ($V_{GS} = 5.0 \text{ V}$)	I_{GSS}	—	10	nA
Gate Source Cutoff Voltage ($V_{DS} = -5.0 \text{ V}$, $I_D = -1.0 \mu\text{A}$)	$V_{GS(off)}$	—	1.7	Vdc
ON CHARACTERISTICS				
Zero-Gate-Voltage Drain Current ($V_{DS} = -5.0 \text{ V}$)	I_{DSS}^*	-200 -440	-1000 -2200	μA
SMALL-SIGNAL CHARACTERISTICS				
Forward Transfer Admittance ($V_{DS} = -5.0 \text{ V}$, $f = 1.0 \text{ kHz}$)	$ y_{fs} ^*$	540 1400	— —	μmhos
Input Capacitance ($V_{DS} = -5.0 \text{ V}$, $V_{GS} = 1.0 \text{ V}$, $f = 140 \text{ kHz}$)	C_{iss}	— —	17 30	pF
FUNCTIONAL CHARACTERISTICS				
Noise Figure ($V_{DS} = -5.0 \text{ V}$, $f = 1.0 \text{ kHz}$, $R_G = 1.0 \text{ meg}$)	NF	—	3.0	dB

*Pulse Width $\leq 630 \text{ ms}$, Duty Cycle = 10%.