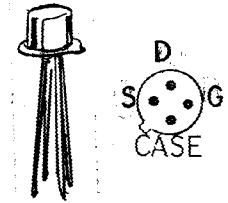


MICRO ELECTRONICS MICRO

2N4416,A

N-CHANNEL FET

CASE TO-72



2N4416 and 2N4416A are N-channel field-effect transistors designed for general purpose amplifier and chopper applications.

ABSOLUTE MAXIMUM RATINGS :

		2N4416	2N4416A
Drain-Gate Voltage	V _{DG}	30V	35V
Drain-Source Voltage	V _{DS}	30V	35V
Reverse Gate-Source Voltage	V _{GS}	30V	35V
Gate Current	I _G		10mA
Total Power Dissipation @ T _A =25°C	P _{tot}		300mW
Operating Junction & Storage Temperature	T _j , T _{stg}		-65 to +200°C

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise specified)

PARAMETER	SYMBOL	MIN	MAX	UNIT	TEST CONDITIONS
Gate-Source Breakdown Voltage 2N4416 2N4416A	BV _{GSS}	30 35		V	I _G =1μA V _{DS} =0
Gate-Source Forward Voltage	V _{GSF}		1	V	I _G =1mA V _{DS} =0
Gate Reverse Current	I _{GSS}		100 200	pA pA	V _{GS} =20V V _{DS} =0 V _{GS} =20V V _{DS} =0 T _A =150°C
Gate-Source Cutoff Voltage 2N4416 2N4416A	V _{GS(off)}	2.5	6 6	V	V _{DS} =15V I _D =1nA
Gate-Source Voltage	V _{GS}	1	5.5	V	V _{DS} =15V I _D =0.5mA
Zero-Gate Voltage Drain Current	I _{DSS}	5	15	mA	V _{DS} =15V V _{GS} =0
Small-Signal Common-Source Forward Transfer Admittance	Y _{fs}	4.5	7.5	mmho	V _{DS} =15V V _{GS} =0 f=1KHz

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