

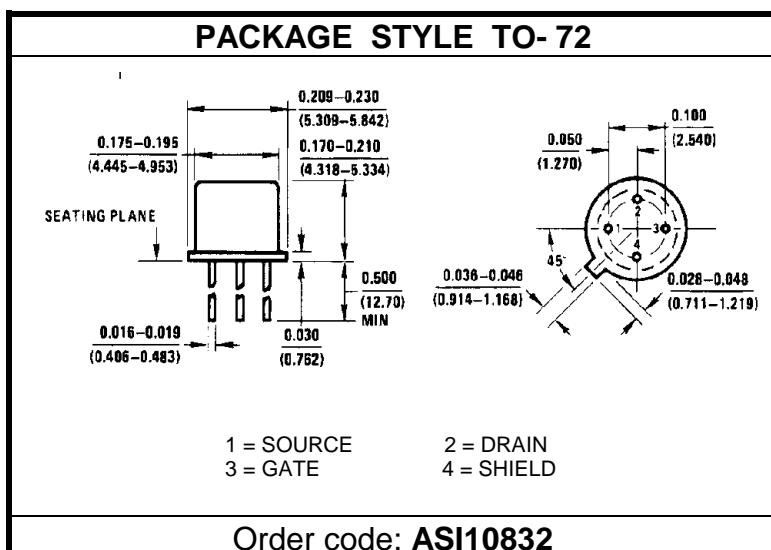
# N-CHANNEL SILICON FET DEPLETION MODE

## DESCRIPTION:

The **ASI BFW13** is Designed for Low Noise Video Amplifier Applications.

## MAXIMUM RATINGS

$I_D$	10 mA
$I_G$	5.0 mA
$V_{DS}$	30 V
$V_{DG}$	30 V
$V_{GS}$	30 V
$P_{tot}$	150 mW @ $T_A = 110\text{ }^{\circ}\text{C}$
$T_J$	$-65\text{ }^{\circ}\text{C}$ to $+200\text{ }^{\circ}\text{C}$
$T_{STG}$	$-65\text{ }^{\circ}\text{C}$ to $+200\text{ }^{\circ}\text{C}$
$\theta_{JA}$	590 $^{\circ}\text{C/W}$



## CHARACTERISTICS $T_C = 25\text{ }^{\circ}\text{C}$

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
$I_{GS}$	$V_{GS} = 10\text{ V}$ $T_C = 150\text{ }^{\circ}\text{C}$			100 100	pA nA
$I_{DSS}$	$V_{DS} = 15\text{ V}$ $V_{GS} = 0\text{ V}$	0.2		1.5	mA
$V_{GS}$	$V_{DS} = 15\text{ V}$ $I_D = 50\text{ }\mu\text{A}$	0.1		1.0	V
$V_{(P)GS}$	$V_{DS} = 15\text{ V}$ $I_D = 500\text{ pA}$			1.2	V
$ y_{fs} $ $ y_{os} $	$V_{DS} = 15\text{ V}$ $V_{GS} = 0\text{ V}$	1500		10	$\mu\text{S}$
$ y_{fs} $ $ y_{os} $	$V_{DS} = 15\text{ V}$ $I_D = 200\text{ }\mu\text{A}$ $f = 1.0\text{ MHz}$	500		5.0	$\mu\text{S}$
$C_{iss}$ $C_{rs}$	$V_{DS} = 15\text{ V}$ $f = 1.0\text{ MHz}$			5.0 0.8	pF
$V_n$	$V_{DS} = 15\text{ V}$ $I_D = 200\text{ }\mu\text{A}$ $BW = 0.6\text{ to }100\text{ Hz}$			500	nV