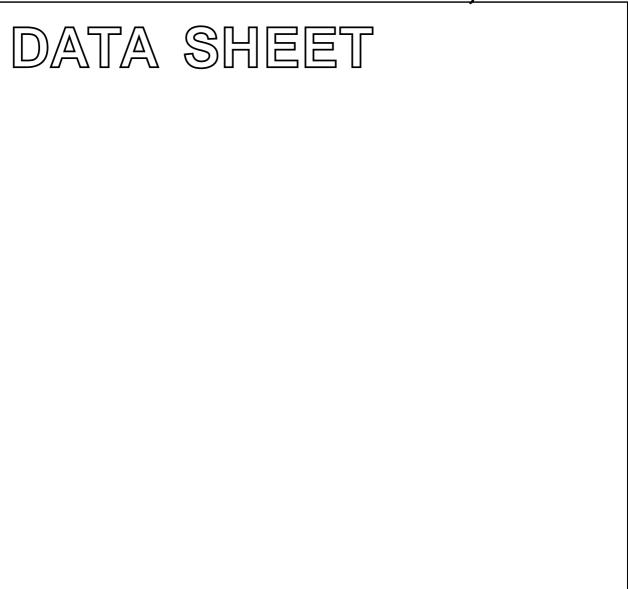




# BF904; BF904R





# BF904; BF904R

#### **FEATURES**

- · Specially designed for use at 5 V supply voltage
- Short channel transistor with high transfer admittance to input capacitance ratio
- · Low noise gain controlled amplifier up to 1 GHz
- Superior cross-modulation performance during AGC.

## **APPLICATIONS**

 VHF and UHF applications with 3 to 7 V supply voltage such as television tuners and professional communications equipment.

#### **DESCRIPTION**

Enhancement type field-effect transistor in a plastic microminiature SOT143B and SOT143R package. The transistor consists of an amplifier MOS-FET with source

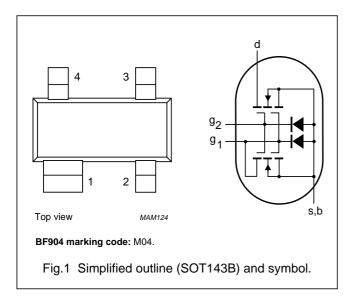
and substrate interconnected and an internal bias circuit to ensure good cross-modulation performance during AGC.

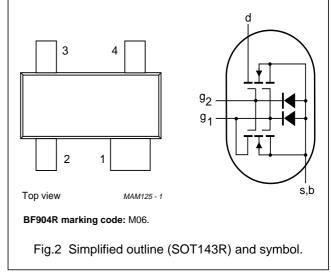
# **CAUTION**

This product is supplied in anti-static packing to prevent damage caused by electrostatic discharge during transport and handling. For further information, refer to TY specs.: SNW-EQ-608, SNW-FQ-302A and SNW-FQ-302B.

#### **PINNING**

PIN	SYMBOL	DESCRIPTION		
1	s, b	source		
2	d	drain		
3	$g_2$	gate 2		
4	<b>9</b> 1	gate 1		





## **QUICK REFERENCE DATA**

SYMBOL	PARAMETER	CONDITIONS	MIN.	TYP.	MAX.	UNIT
V <sub>DS</sub>	drain-source voltage		_	_	7	V
I <sub>D</sub>	drain current		_	_	30	mA
P <sub>tot</sub>	total power dissipation		_	_	200	mW
Tj	operating junction temperature		_	_	150	°C
y <sub>fs</sub>	forward transfer admittance		22	25	30	mS
C <sub>ig1-s</sub>	input capacitance at gate 1		_	2.2	2.6	pF
C <sub>rs</sub>	reverse transfer capacitance	f = 1 MHz	_	25	35	fF
F	noise figure	f = 800 MHz	_	2	_	dB