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Rev. A1, June 2003



BF245A/BF245B/BF245C

N-Channel Amplifiers • This device is designed for VHF/UHF amplifiers.

- Sourced from process 50.



Absolute Maximum Ratings T_a=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V_{DG}	Drain-Gate Voltage	30	V
V _{GS}	Gate-Source Voltage	-30	V
I _{GF}	Forward Gate Current	10	mA
P _D	Total Device Dissipation @T _A =25°C	350	mW
	Derate above 25°C	2.8	mW/°C
$T_{J_i}T_{STG}$	Operating and Storage Junction Temperature Range	- 55 ~ 150	°C

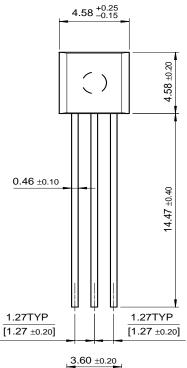
Electrical Characteristics T_a=25°C unless otherwise noted

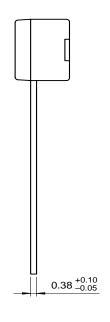
Symbol	Parar	neter	Test Condition	Min.	Max.	Units
Off Chara	cteristics		·	•		
V _{(BR)GSS}	Gate-Source Breakd	own Voltage	$V_{DS} = 0, I_{G} = 1\mu A$	-30		V
V _{GS}	Gate-Source	BF245A BF245B BF245C	$V_{DS} = 15V$, $I_D = 200\mu A$	-0.4 -1.6 -3.2	-2.2 -3.8 -7.5	V
V _{GS} (off)	Gate-Source Cut-off	Voltage	V _{DS} = 15V, I _D = 10nA	-0.5	-8	V
I _{GSS}	Gate Reverse Currer	nt	$V_{GS} = -20V, V_{GS} = 0$		-5	nA
On Chara	cteristics		·			
I _{DSS}	Zero-Gate Voltage D	rain Current BF245A BF245B BF245C	V _{GS} = 15V, V _{GS} = 0	2 6 12	6.5 15 25	mA
On Chara	cteristics		·	•	•	•
9 _{fs}	Common Source For Transconductance	ward	$V_{GS} = 15V, V_{GS} = 0, f = 1KHz$	3	6.5	mmhos

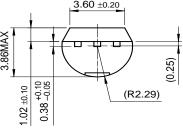
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Package Dimensions

TO-92







Dimensions in Millimeters

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$CROSSVOLT^{TM}$	FRFET™	MicroPak™	QFET™	SuperSOT™-8
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