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[BF245B_D74Z](#)

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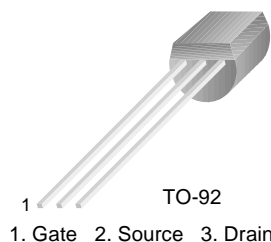
sales@integrated-circuit.com



BF245A/BF245B/BF245C

N-Channel Amplifiers

- This device is designed for VHF/UHF amplifiers.
- Sourced from process 50.



Absolute Maximum Ratings $T_a=25^\circ\text{C}$ unless otherwise noted

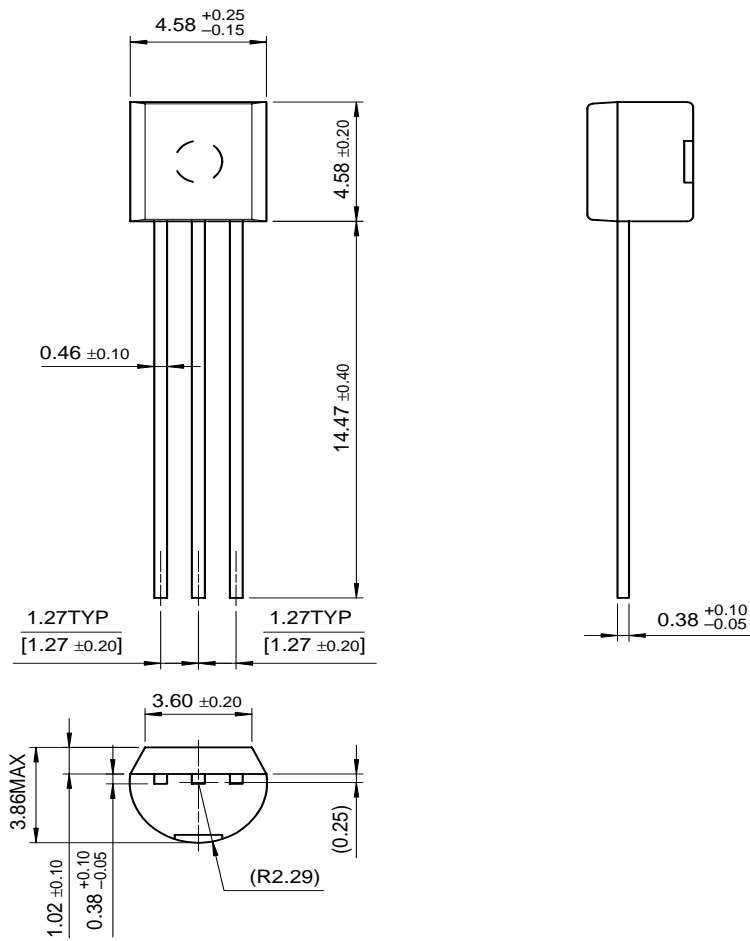
Symbol	Parameter	Value	Units
V_{DG}	Drain-Gate Voltage	30	V
V_{GS}	Gate-Source Voltage	-30	V
I_{GF}	Forward Gate Current	10	mA
P_D	Total Device Dissipation @ $T_A=25^\circ\text{C}$	350	mW
	Derate above 25°C	2.8	mW/ $^\circ\text{C}$
T_J, T_{STG}	Operating and Storage Junction Temperature Range	- 55 ~ 150	$^\circ\text{C}$

Electrical Characteristics $T_a=25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Max.	Units	
Off Characteristics						
$V_{(BR)GSS}$	Gate-Source Breakdown Voltage	$V_{DS} = 0, I_G = 1\mu\text{A}$	-30		V	
V_{GS}	Gate-Source	BF245A	-0.4	-2.2	V	
		BF245B	-1.6	-3.8		
		BF245C	-3.2	-7.5		
$V_{GS(off)}$	Gate-Source Cut-off Voltage	$V_{DS} = 15\text{V}, I_D = 10\text{nA}$	-0.5	-8	V	
I_{GSS}	Gate Reverse Current	$V_{GS} = -20\text{V}, V_{DS} = 0$		-5	nA	
On Characteristics						
I_{DSS}	Zero-Gate Voltage Drain Current	$V_{GS} = 15\text{V}, V_{GS} = 0$	BF245A	2	6.5	mA
			BF245B	6	15	
			BF245C	12	25	
g_{fs}	Common Source Forward Transconductance	$V_{GS} = 15\text{V}, V_{GS} = 0, f = 1\text{KHz}$	3	6.5	mmhos	

Package Dimensions

TO-92



BF245A/BF245B/BF245C

Dimensions in Millimeters

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CoolFET™	FASTr™	MicroFET™	PowerTrench®	SuperSOT™-6
CROSSVOLT™	FRFET™	MicroPak™	QFET™	SuperSOT™-8
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Programmable Active Droop™				

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