

PN4302

N-Channel General Purpose Amplifier

- This device is designed primarily for low level audio and general purpose applications with high impedance signal sources.
- Sourced from process 52.



1. Drain 2. Source 3. Gate

Absolute Maximum Ratings* T_a=25°C unless otherwise noted

Symbol	Parameter	Ratings	Units
V_{DG}	Drain-Gate Voltage	30	V
V_{GS}	Gate-Source Voltage	-30	V
I _{GF}	Forward Gate Current	50	mA
T _J , T _{STG}	Operating and Storage Junction Temperature Range	-55 ~ 150	°C

^{*} This ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

Electrical Characteristics T_a=25°C unless otherwise noted

Parameter	Test Condition	Min.	Max.	Units
Off Characteristics				
Gate-Source Breakdwon Voltage	$I_G = -1.0 \mu A, V_{DS} = 0$	-30		V
Gate Reverse Current	$V_{GS} = -10V, V_{DS} = 0$		-1.0	nA
Gate-Source Cutoff Voltage	$V_{DS} = 20V, I_{D} = 1.0nA$		-4.0	V
On Characteristics				
Zero-Gate Voltage Drain Current *	$V_{DS} = -15V, V_{GS} = 0$	0.5	5.0	mA
	Gate-Source Breakdwon Voltage Gate Reverse Current Gate-Source Cutoff Voltage teristics			

Thermal Characteristics T_a=25°C unless otherwise noted

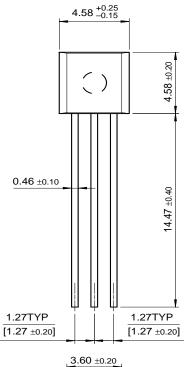
Symbol	Parameter	Max.	Units
P _D	Total Device Dissipation	625	mW
	Derate above 25°C	5.0	mW/°C
$R_{\theta JC}$	Thermal Resistance, Junction to Case	125	°C/W
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	357	°C/W

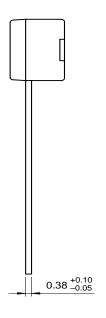
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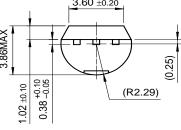
These rating are based on a maximum junction temperature of 150 degrees C.
 These are steady limits. The factory should be consulted on applications involving pulsed or low duty cycle operations.

Package Dimensions

TO-92







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