imall

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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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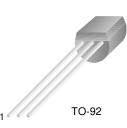


SEMICONDUCTOR

PN4303

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		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.

NOTES:

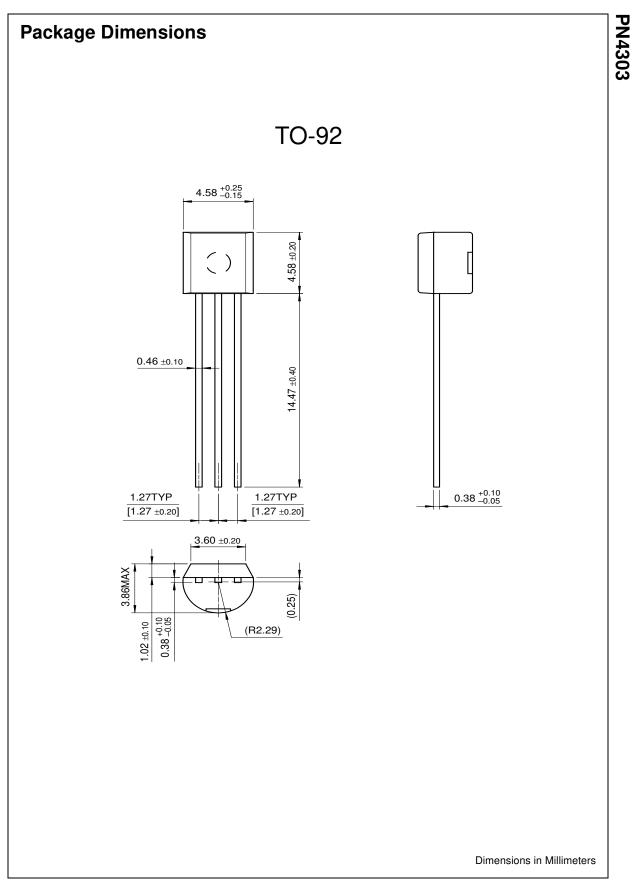
1) These rating are based on a maximum junction temperature of 150 degrees C.
2) These are steady limits. The factory should be consulted on applications involving pulsed or low duty cycle operations.

Electrical Characteristics Ta=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Max.	Units
Off Characteristics					
V _{(BR)GSS}	Gate-Source Breakdwon Voltage	$I_{G} = -1.0 \mu A, V_{DS} = 0$	-30		V
I _{GSS}	Gate Reverse Current	$V_{GS} = -10V, V_{DS} = 0$		-1.0	nA
V _{GS(off)}	Gate-Source Cutoff Voltage	V _{DS} = 20V, I _D = 1.0nA		-6.0	V
On Characteristics					
I _{DSS}	Zero-Gate Voltage Drain Current *	V _{DS} = -15V, V _{GS} = 0	4.0	10	mA

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	
$R_{ extsf{ heta}JA}$	Thermal Resistance, Junction to Ambient	357	°C/W	



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PRODUCT STATUS DEFINITIONS

Definition of Terms

Datasheet Identification	Product Status	Definition
Advance Information	Formative or In Design	This datasheet contains the design specifications for product development. Specifications may change in any manner without notice.
Preliminary	First Production	This datasheet contains preliminary data, and supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
Obsolete	Not In Production	This datasheet contains specifications on a product that has been discontinued by Fairchild semiconductor. The datasheet is printed for reference information only.