



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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P-CHANNEL J-FET

Qualified per MIL-PRF-19500 / 296

Devices

2N2609

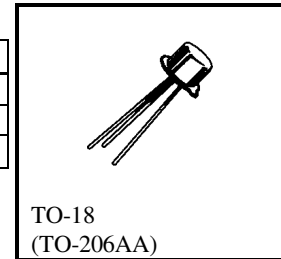
Qualified Level

JAN

ABSOLUTE MAXIMUM RATINGS ($T_A = +25^{\circ}\text{C}$ unless otherwise noted)

Parameters / Test Conditions	Symbol	Value	Units
Gate-Source Voltage	V_{GSS}	30	V
Power Dissipation ⁽¹⁾	P_D	300	mW
Operating Junction & Storage Temperature Range	T_{op}, T_{stg}	-65 to +200	$^{\circ}\text{C}$

(1) Derate linearly 1.71 mW/ $^{\circ}\text{C}$ for $T_A > +25^{\circ}\text{C}$.



TO-18
(TO-206AA)

*See appendix A for package outline

ELECTRICAL CHARACTERISTICS ($T_A = +25^{\circ}\text{C}$ unless otherwise noted)

PARAMETERS / TEST CONDITIONS	Symbol	Min.	Max.	Units
Gate-Source Breakdown Voltage $V_{DS} = 0, I_G = 1.0 \mu\text{A}$	$V_{(BR)GSS}$	30		Vdc
Gate Reverse Current $V_{DS} = 0, V_{GS} = 30 \text{ Vdc}$ $V_{DS} = 0, V_{GS} = 15 \text{ Vdc}$	I_{GSS}		30 22.5	ηA
Drain Current $V_{GS} = 0, V_{DS} = 5.0 \text{ Vdc}$	I_{DDSS}	-2.0	-10.0	mAdc
Gate-Source Cutoff Voltage $V_{DS} = 5.0 \text{ V}, I_D = 1.0 \mu\text{A}$	$V_{GS(off)}$	0.75	6.0	Vdc
Magnitude of Small-Signal, Common-Source Short-Circuit Forward Transfer Admittance $V_{GS} = 0, V_{DS} = 5.0 \text{ Vdc}, f = 1.0 \text{ kHz}$	$ Y_{fs2} $	2,000	6,250	μmho
Small-Signal, Common-Source Short-Circuit Input Capacitance $V_{GS} = 0, V_{DS} = 5.0 \text{ Vdc}, f = 1.0 \text{ MHz}$	C_{iss}		10	pF
Common-Source Spot Noise Figure $V_{GS} = 0, V_{DS} = 5.0 \text{ Vdc}, f = 1.0 \text{ kHz}$ $B_w = 16\%, R_G = 1.0 \text{ megohms}, e_{gen} = 1.82 \text{ mVdc}, R_L = 220 \Omega$	NF		3.0	dB