





2N2608-9

2N2608, 2N2609 P-Channel JFET

Technical

Support

Features

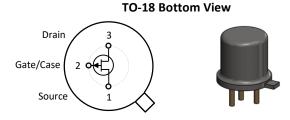
- InterFET P0032F Geometry
- Typical Noise: 10 nV/VHz
- Low Ciss: 3.2pF Typical
- RoHS Compliant
- SMT, TH, and Bare Die Package options.

Applications

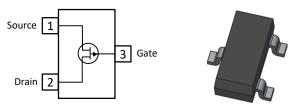
- Choppers
- Data Switches
- Commutators

Description

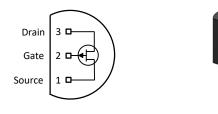
The 30V InterFET 2N2608 and 2N2609 are targeted for data switches and low-level chopper designs. Gate leakages are typically less than 1nA at room temperatures. The TO-18 package is hermetically sealed and suitable for military applications.







TO-92 Bottom View



Product Summary

	Parameters	2N2608 Min	2N2609 Min	Unit
BV _{GSS}	Gate to Source Breakdown Voltage	30	30	V
IDSS	Drain to Source Saturation Current	-0.9	-2	mA
V _{GS(off)}	Gate to Source Cutoff Voltage	1	1	V
GFS	Forward Transconductance	1000	2500	μS

Ordering Information Custom Part and Binning Options Available

Part Number	Description	Case	Packaging
2N2608; 2N2609	Through-Hole	TO-18	Bulk
PN2608; PN2609	Through-Hole	TO-92	Bulk
SMP2608; SMP2609	Surface Mount	SOT23	Bulk
	7" Tape and Reel: Max 3,000 Pieces		Minimum 1,000 Pieces
SMP2608TR; SMP2609TR	13" Tape and Reel: Max 9,000 Pieces	SOT23	Tape and Reel
2N2608COT; 2N2609COT	Chip Orientated Tray (COT Waffle Pack)	СОТ	400/Waffle Pack
2N2608CFT; 2N2609CFT	Chip Face-up Tray (CFT Waffle Pack)	CFT	400/Waffle Pack



Disclaimer: It is the Buyers responsibility for designing, validating and testing the end application under all field use cases and extreme use conditions. Guaranteeing the application meets required standards, regulatory compliance, and all safety and security requirements is the responsibility of the Buyer. These resources are subject to change without notice.







Electrical Characteristics

Maximum Ratings (@ T_A = 25°C, Unless otherwise specified)

	Parameters	Value	Unit
VRGS	Reverse Gate Source and Gate Drain Voltage	30	V
I_{FG}	Continuous Forward Gate Current	-10	mA
PD	Continuous Device Power Dissipation	300	mW
Р	Power Derating	2	mW/°C
Τı	Operating Junction Temperature	-55 to 125	°C
T _{STG}	Storage Temperature	-65 to 150	°C

Static Characteristics (@ TA = 25°C, Unless otherwise specified)

			2N2608		2N2609		
	Parameters	Conditions	Min	Max	Min	Max	Unit
V(BR)GSS	Gate to Source Breakdown Voltage	$V_{DS} = 0V$, $I_G = 1\mu A$	30		30		v
IGSS	Gate to Source Reverse Current	$V_{GS} = 5V, V_{DS} = 0V$		10		10	nA
V _{GS(OFF)}	Gate to Source Cutoff Voltage	V _{DS} = -5V, I _D = -1nA	1	4	1	4	v
I _{DSS}	Drain to Source Saturation Current	$V_{GS} = 0V, V_{DS} = -5V$ (Pulsed)	-0.9	-4.5	-2	-10	mA

Dynamic Characteristics (@ TA = 25°C, Unless otherwise specified)

			2N2608		2N2609		
	Parameters	Conditions	Min	Max	Min	Max	Unit
G _{FS}	Forward Transconductance	V_{DS} = -5V, V_{GS} = 0V, f = 1kHz	1000		2500		μS
Ciss	Input Capacitance	V _{DS} = -5.4V, V _{GS} = 1V, f = 1MHz		17		30	pF



Technical

Support

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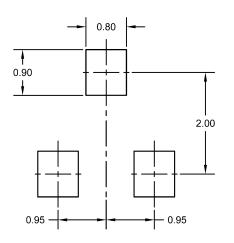
SOT23 (TO-236AB) Mechanical and Layout Data

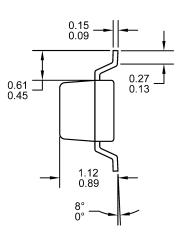
Package Outline Data





Suggested Pad Layout





- 1. All linear dimensions are in millimeters.
- 2. Package weight approximately 0.12 grams
- 3. Molded plastic case UL 94V-0 rated
- For Tape and Reel specifications refer to InterFET CTC-021 Tape and Reel Specification, Document number: IF39002
- 5. Bulk product is shipped in standard ESD shipping material
- 6. Refer to JEDEC standards for additional information.

- 1. All linear dimensions are in millimeters.
- 2. The suggested land pattern dimensions have been provided for reference only. A more robust pattern may be desired for wave soldering.





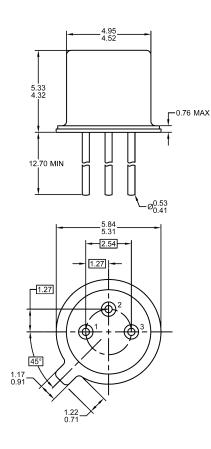
Order

Now

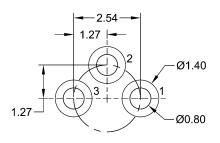
2N2608-9

TO-18 Mechanical and Layout Data

Package Outline Data



Suggested Through-Hole Layout



- 1. All linear dimensions are in millimeters.
- 2. Package weight approximately 0.29 grams
- 3. Bulk product is shipped in standard ESD shipping material
- 4. Refer to JEDEC standards for additional information.

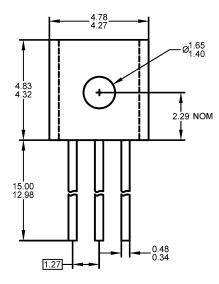
- 1. All linear dimensions are in millimeters.
- 2. The suggested land pattern dimensions have been provided as a straight lead reference only. A more robust pattern may be desired for wave soldering and/or bent lead configurations.

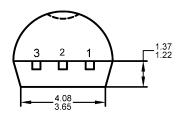




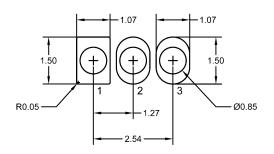
TO-92 Mechanical and Layout Data

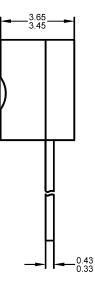
Package Outline Data





Suggested Through-Hole Layout





- 1. All linear dimensions are in millimeters.
- 2. Package weight approximately 0.19 grams
- 3. Molded plastic case UL 94V-0 rated
- 4. Bulk product is shipped in standard ESD shipping material
- 5. Refer to JEDEC standards for additional information.

- 1. All linear dimensions are in millimeters.
- 2. The suggested land pattern dimensions have been provided as a straight lead reference only. A more robust pattern may be desired for wave soldering and/or bent lead configurations.

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