NTE458
N–Channel Silicon JFET
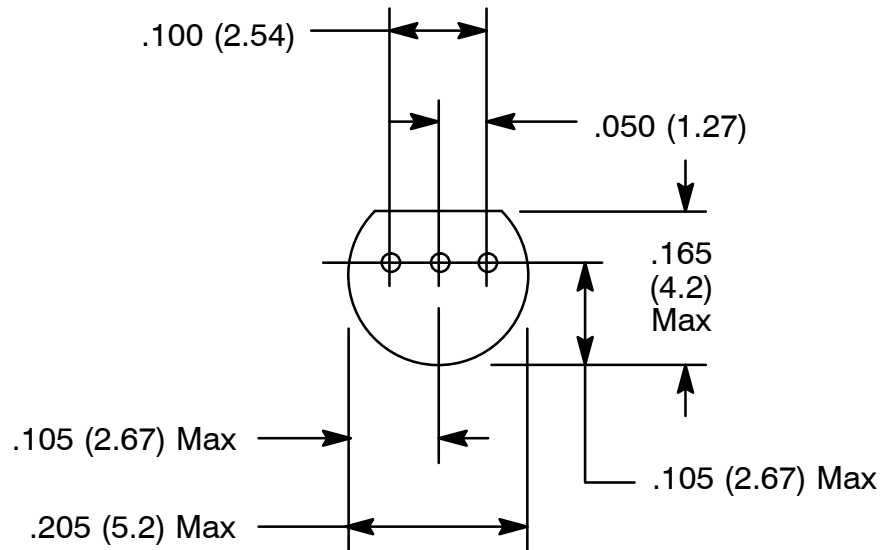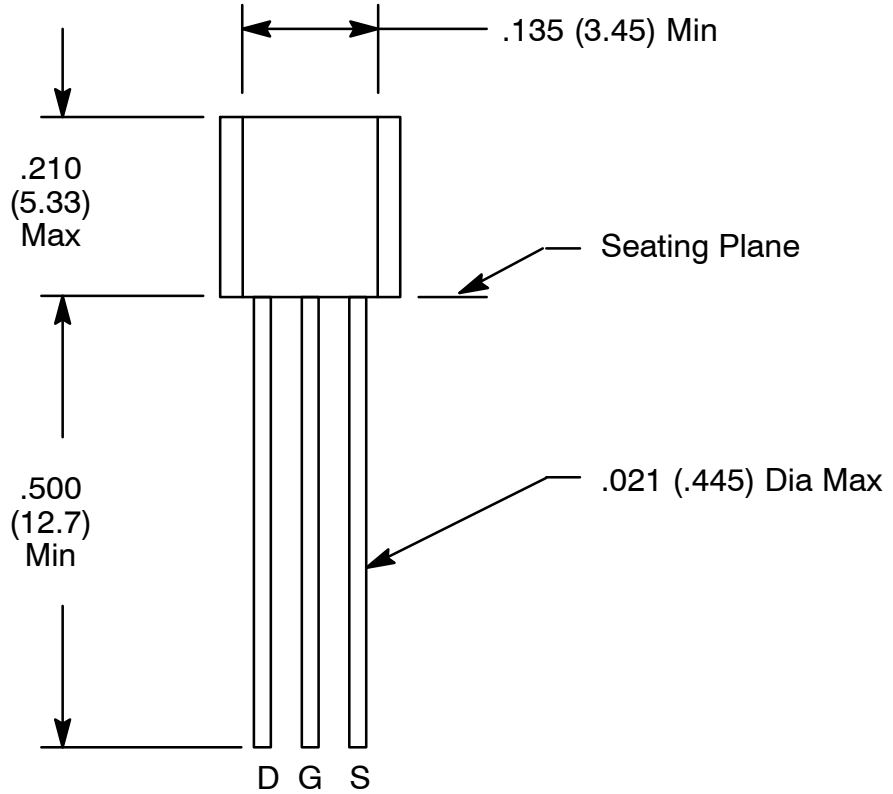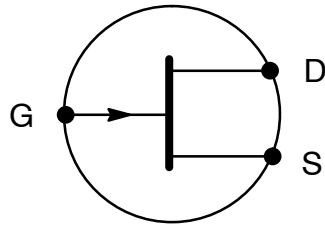# General Purpose, Low Noise, Audio Frequency Amplifier
TO92 Type package

Features:
- Very Low Noise
- Low Gate Current

Absolute Maximum Ratings: (T_A = +25°C unless otherwise specified)

Gate–Drain Voltage, V_{GDO} . . . . −50V

Gate–Source Voltage, V_{GSO} . . . . −50V

Drain–Source Voltage (V_{DS} = −2V), V_{DSX} 50V

Drain Current, I_D 20mA

Gate Current, I_G 10mA

Total Device Dissipation, P_T 250mW

Operating Junction Temperature, T_J . . . . +125°C

Storage Temperature Range, T_{stg} . . . . −55°C to +125°C

Electrical Characteristics: (T_A = +25°C unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Gate Reverse Current	I_{GSS}	V_{GS} = −20V, V_{DS} = 0	–	–	−1	nA
Zero–Gate Voltage Drain Current	I_{DSS}	V_{DS} = 10V, V_{GS} = 0	0.5	3.0	12	mA
Gate–Source Voltage	$V_{GS(off)}$	V_{DS} = 10V, I_D = 10µA	−0.13	−0.5	−1.5	V
Forward Transconductance	g_{fs}	V_{DS} = 10V, I_D = 0.5mA, f = 1kHz	4.0	5.2	–	mhos
		V_{DS} = 10V, V_{GS} = 0, f = 1MHz	4.0	12	–	mhos
Input Capacitance	C_{iss}	V_{DS} = 10V, V_{GS} = 0, f = 1MHz	–	13	–	pF
Reverse Transfer Capacitance	C_{rss}	V_{DS} = 10V, V_{GS} = 0, f = 1MHz	–	2.6	–	pF
Noise Frequency	NF	V_{DS} = 10V, V_{GS} = 0, R_G = 1kΩ, f = 10Hz	–	5.0	10	dB
		V_{DS} = 10V, V_{GS} = 0, R_G = 1kΩ, f = 100Hz	–	1.0	3.0	dB
		V_{DS} = 10V, V_{GS} = 0, R_G = 1kΩ, f = 1kHz	–	0.6	1.5	dB
Noise Voltage	NV	I_D = 0.5mA, R_G = 1kΩ, f = 10Hz to 1kHz (at V_G = −3dB)	–	15	20	mV

G

D

S

.135 (3.45) Min

.210
(5.33)
Max

Seating Plane

.500
(12.7)
Min

.021 (.445) Dia Max

D G S

.100 (2.54)

.050 (1.27)

.165
(4.2)
Max

.105 (2.67) Max

.105 (2.67) Max

.205 (5.2) Max

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