NTE490
MOSFET
N−Ch, Enhancement Mode
High Speed Switch
TO92 Type Package

Absolute Maximum Ratings:

Drain−Source Voltage, V_{DS} 60V
Gate−Source Voltage, V_{GS} . . . . ±20V
Drain Current (Note 1), I_D 500mA
Total Device Dissipation (T_A = +25°C), P_D 350mW
Operating Junction Temperature Range, T_J . . . . −55° to +150°C
Storage Temperature Range, T_{stg} . . . . −55° to +150°C

Note 1. The Power Dissipation of the package may result in a lower continuous drain current.

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
OFF Characteristics						
Drain−Source Breakdown Voltage	$V_{(BR)DSS}$	V_{GS} = 0, I_D = 100≤A	60	90	–	V
Gate Reverse Current	I_{GSS}	V_{GS} = 15V, V_{DS} = 0	–	0.01	10	nA
ON Characteristics (Note 2)						
Gate Threshold Voltage	$V_{GS(Th)}$	V_{DS} = V_{GS}, I_D = 1mA	0.8	2.0	3.0	V
Static Drain−Source ON Resistance	$r_{DS}(on)$	V_{GS} = 10V, I_D = 200mA	–	1.8	5.0	±
Drain Cutoff Current	$I_{D(off)}$	V_{DS} = 25V, V_{GS} = 0	–	–	0.5	≤A
Forward Transconductance	g_{fs}	V_{DS} = 10V, I_D = 250mA	–	200	–	mmhos
Small−Signal Characteristics						
Input Capacitance	C_{iss}	V_{DS} = 10V, V_{GS} = 0, f = 1MHz	–	–	60	pF
Switching Characteristics						
Turn−On Time	t_{on}	I_D = 200mA	–	4	10	ns
Turn−Off Time	t_{off}	I_D = 200mA	–	4	10	ns

Note 2. Pulse Test: Pulse Width ≤ 300≤s, Duty Cycle ≤ 2%.

D

G

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
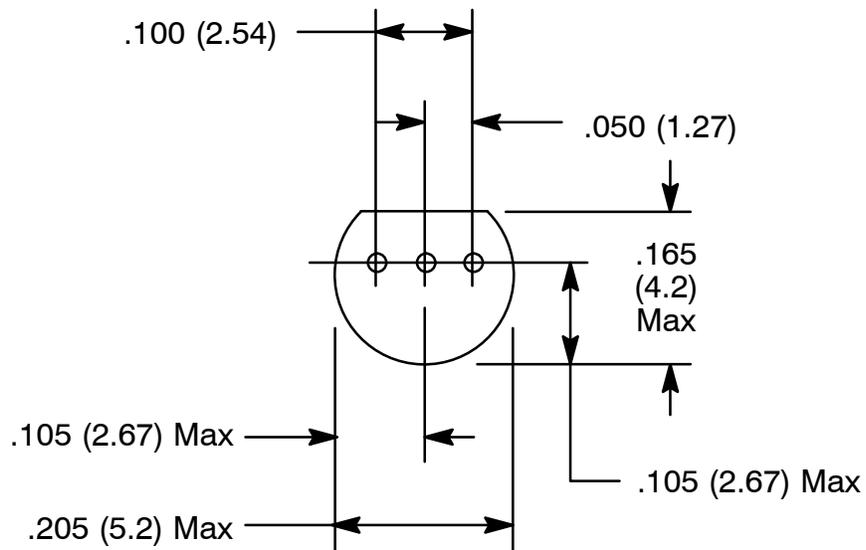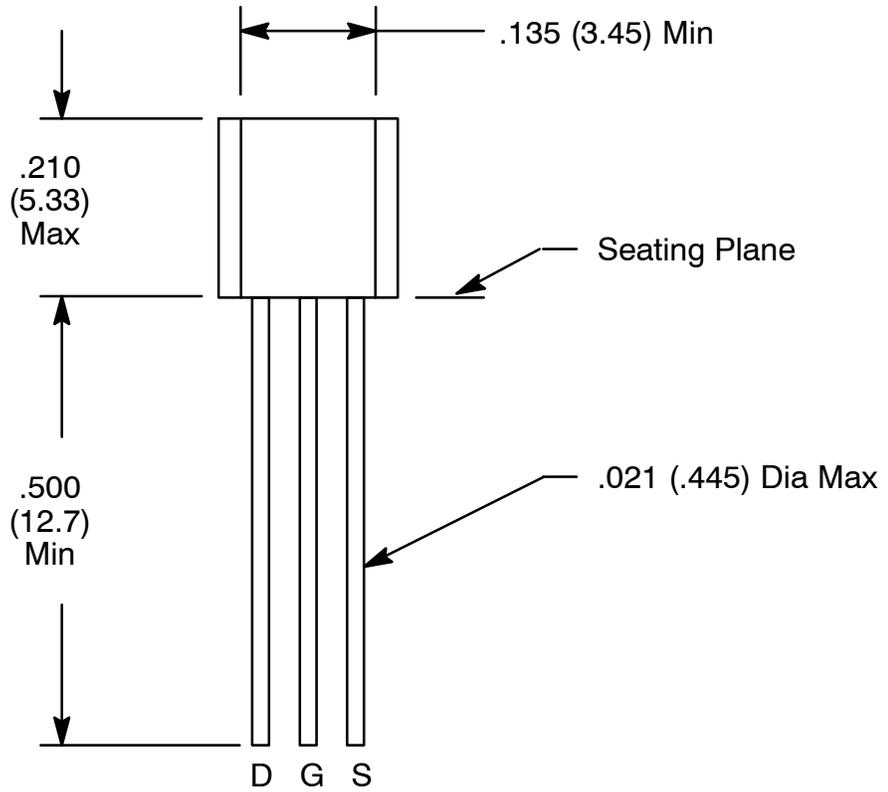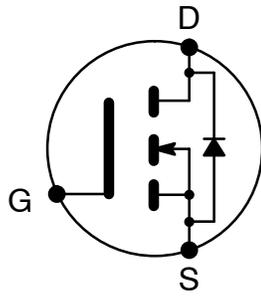
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