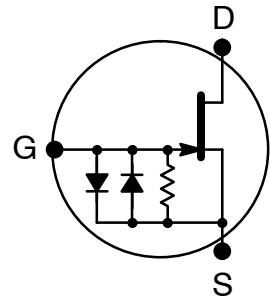




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**NTE2917**  
**MOSFET**  
**Silicon N-Channel JFET Transistor**  
**w/Internal Diode for ECM Impedance**  
**Converter Applications**  
**TO92S Type Package**



**Features:**

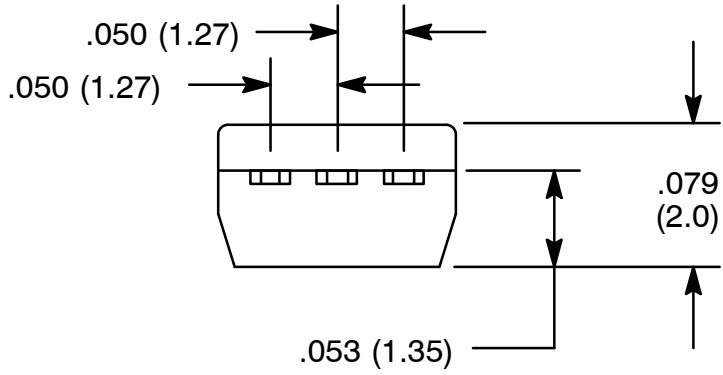
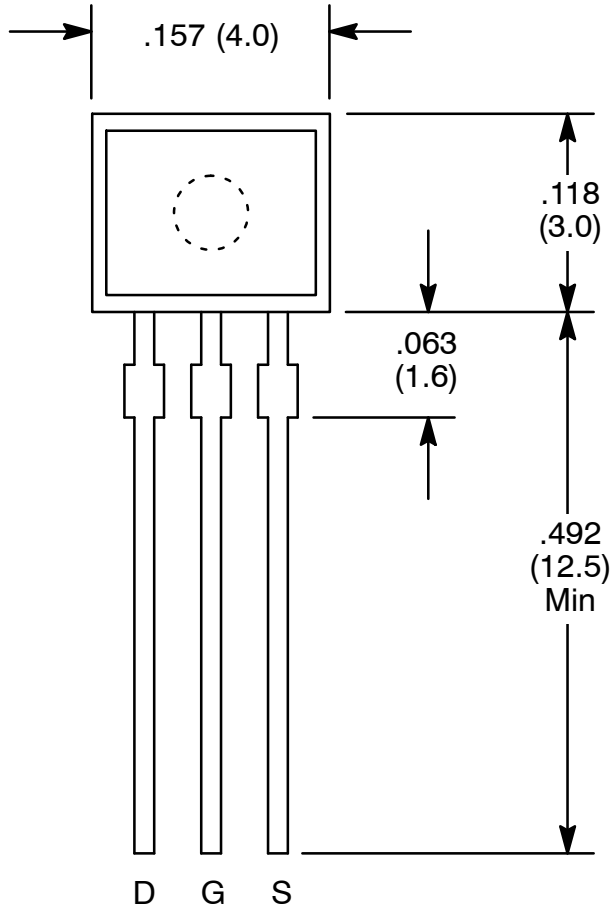
- Compact Package
- High Forward Transfer Admittance
- Low Capacitance
- Includes Diode and High Resistance at G – S

**Absolute Maximum Ratings:**

Drain-to-Source Voltage ( $V_{GS} = -1.0V$ ), $V_{DSX}$ .....	20V
Gate-to-Drain Voltage, $V_{GDO}$ .....	-20V
Drain Current, $I_D$ .....	10mA
Gate Current, $I_G$ .....	10mA
Total Power Dissipation, $P_T$ .....	100mW
Operating Junction Temperature, $T_J$ .....	+125°C
Storage Temperature Range, $T_{stg}$ .....	-55° to +125°C

**Electrical Characteristics:** ( $T_A = +25^\circ C$  unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Zero Gate Voltage Drain Cutoff Current	$I_{DSS}$	$V_{DS} = 5V, V_{GS} = 0V$	60	-	500	$\mu A$
Gate Cutoff Voltage	$V_{GS(off)}$	$V_{GS} = 5V, I_D = 1.0\mu A$	-	-	-1.0	V
Forward Transfer Admittance	$ y_{fs} $	$V_{DS} = 5V, I_D = 30\mu A, f = 1kHz$	150	-	-	$\mu s$
		$V_{DS} = 5V, V_{GS} = 0V, f = 1kHz$	150	1200	-	$\mu s$
Input Capacitance	$C_{iss}$	$V_{GS} = 0V, V_{DS} = 5V, f = 1MHz$	-	4.5	6.0	pF
Output Capacitance	$C_{oss}$		-	1.5	3.0	pF
Reverse Transfer Capacitance	$C_{rss}$		-	1.2	3.0	pF
Noise Voltage	NV		-	1.0	3.0	$\mu V$



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