ELECTRONICS, INC.
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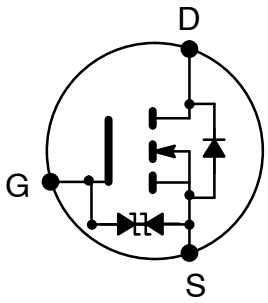
RoHS 2002/95/EC

NTE2926
MOSFET
N–Ch, Enhancement Mode
High Speed Switch
TO3PN Type Package

Features:

- Good Frequency Characteristic
- High Speed Switching
- Wide Area of Safe Operation
- Enhancement Mode
- Good Complementary Characteristics
- Equipped with Gate Protection Diodes
- Suitable for Audio Power Amplifier



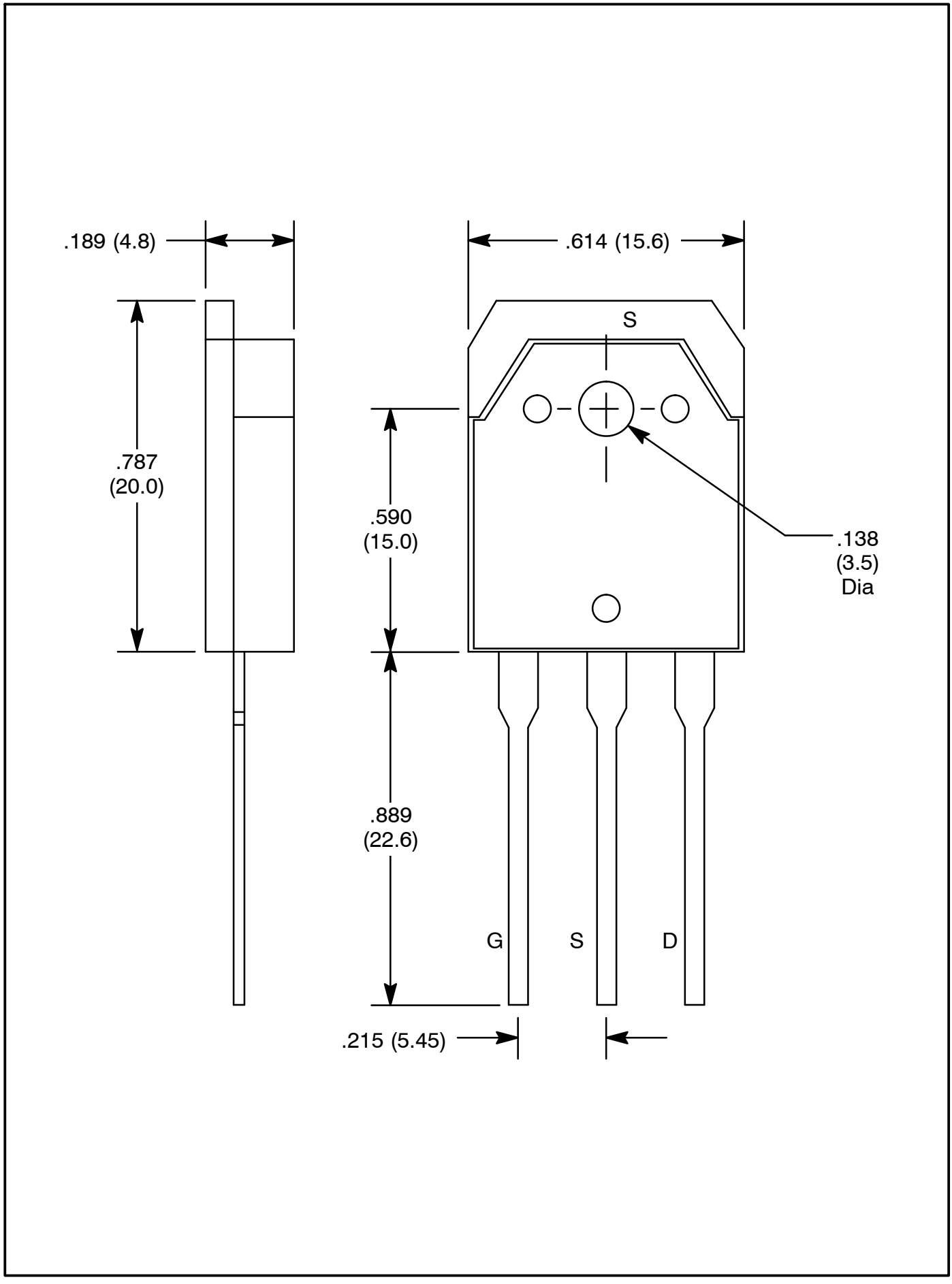
Absolute Maximum Ratings:

Drain–Source Voltage, V_{DSX} 160V
Gate–Source Voltage, V_{GSS} . . . . . ±15
Drain Current, I_D 7A
Body–to–Drain Diode Reverse Drain Current, I_{DR} 7A
Channel Dissipation (T_C = +25°C), P_{ch} 100W
Channel Temperature, T_{ch} . . . . . +150°C
Storage Temperature Range, T_{stg} . . . . . –55° to +150°C

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain–Source Breakdown Voltage	$V_{(BR)DSX}$	V_{GS} = –10V, I_D = 10mA	160	–	–	V
Gate–Source Breakdown Voltage	$V_{(BR)GSS}$	V_{DS} = 0V, I_G = ±100±A	±15	–	–	V
Gate–Source Cutoff Voltage	$V_{GS(off)}$	V_{DS} = 10V, I_D = 100mA	0.15	–	1.45	V
Drain–Source Saturation Voltage	$V_{DS(sat)}$	V_{GD} = 0V, I_D = 7A, Note 1	–	–	12	V
Forward Transfer Admittance	$\|Y_{fs}\|$	V_{DS} = 10V, I_D = 3A, Note 1	0.7	1.0	1.4	S
Input Capacitance	C_{iss}	V_{GS} = –5V, V_{DS} = 10V, f = 1MHz	–	600	–	pF
Output Capacitance	C_{oss}		–	350	–	pF
Reverse Transfer Capacitance	C_{rss}		–	10	–	pF
Turn–On Time	t_{on}	V_{DD} = 20V, I_D = 4A	–	180	–	ns
Turn–Off Time	t_{off}		–	60	–	ns

Note 1. Pulse test.


.189 (4.8)
.614 (15.6)
S
.787
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.138
(3.5)
Dia
.889
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.215 (5.45)

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