

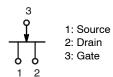
N-Channel JFET

25 V, 20 to 40 mA, 40 mS, CPH3

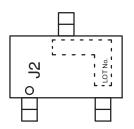
CPH3910

CPH3 CASE 318BA

ELECTRICAL CONNECTION



MARKING DIAGRAM



ORDERING INFORMATION

Device	Package	Shipping [†]
CPH3910-TL-E	CPH3 (Pb-Free)	3 000 / Tape & Reel

†For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification Brochure, BRD8011/D.

Features

- V_{GDS}: -25 V max.
- $|y_{fs}|$: 40 mS typ.
- C_{iss}: 6.0 pF typ.
- N_F: 2.1 dB typ.
- This is a Pb-Free Device

Applications

- For AM Tuner RF Amplification
- Low Noise Amplifier

ABSOLUTE MAXIMUM RATINGS (at TA = 25°C)

Symbol	Parameter	Ratings	Unit
V _{DSX}	Drain-to-Source Voltage	25	V
V _{GDS}	Gate-to-Drain Voltage	-25	V
IG	Gate Current	10	mA
I _D	Drain Current	50	mA
P_{D}	P _D Allowable Power Dissipation		mW
Tj	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55 to +150	°C

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

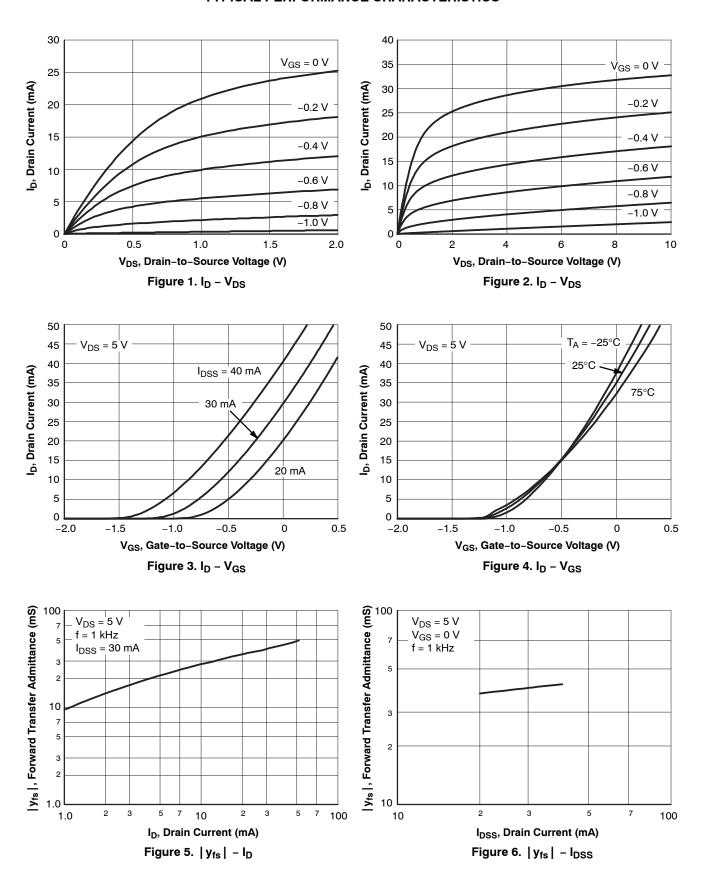
ELECTRICAL CHARACTERISTICS (at T_A = 25°C)

Symbol	Parameter	Test Conditions	Min	Тур	Max	Unit
V _{(BR)GDS}	Gate-to-Drain Breakdown Voltage	$I_G = -10 \mu A, V_{DS} = 0 V$	-25			V
I _{GSS}	Gate Cutoff Current	$V_{GS} = -10 \text{ V}, V_{DS} = 0 \text{ V}$			-1.0	nA
V _{GS} (off)	Cutoff Voltage	$V_{DS} = 5 \text{ V}, I_D = 100 \mu\text{A}$	-0.6	-1.2	-1.8	V
I _{DSS}	Drain Current	V _{DS} = 5 V, V _{GS} = 0 V	20		40	mA
y _{fs}	Forward Transfer Admittance	$V_{DS} = 5 \text{ V}, V_{GS} = 0 \text{ V}, f = 1 \text{ kHz}$	30	40		mS
C _{iss}	Input Capacitance	V _{DS} = 5 V, V _{GS} = 0 V, f = 1 MHz		6.0		pF
C _{rss}	Reverse Transfer Capacitance	$V_{DS} = 5 \text{ V}, V_{GS} = 0 \text{ V}, f = 1 \text{ MHz}$		2.3		pF
N _F	Noise Figure	V _{DS} = 5 V, V _{GS} = 0 V, f = 100 MHz		2.1	2.8	dB

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

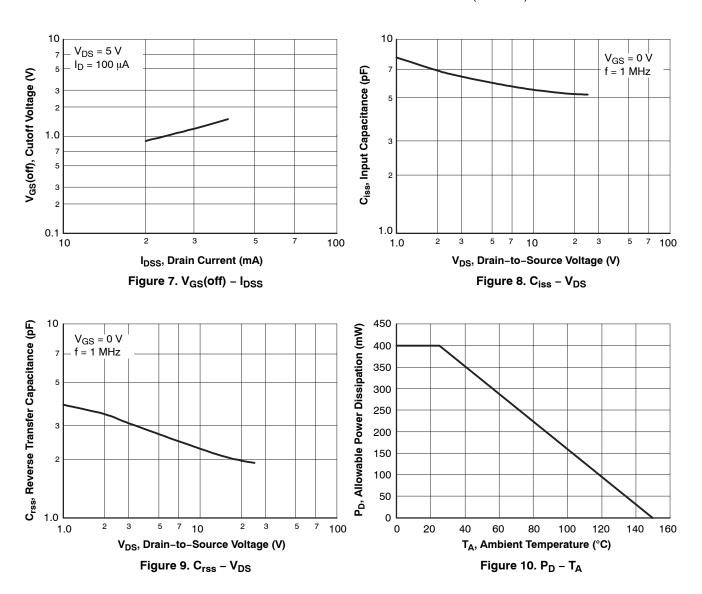
CPH3910

TYPICAL PERFORMANCE CHARACTERISTICS



CPH3910

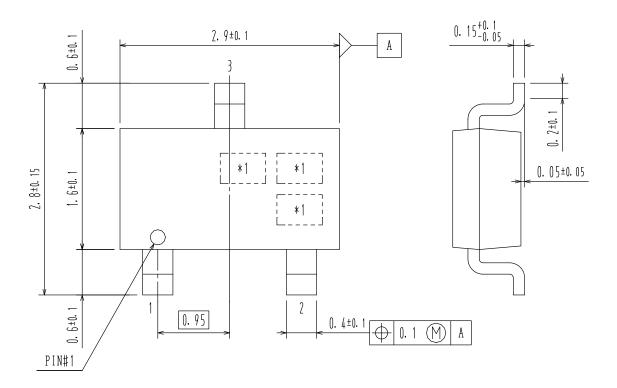
TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

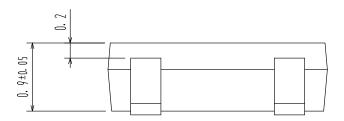




CPH3 CASE 318BA ISSUE O

DATE 30 NOV 2011





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