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Ordering number : ENA1966A

CPH6904

N-Channel JFET
25V, 20 to 40mA, 40mS, Dual CPH6

ON Semiconductor®
http://onsemi.com

Features

- Composite type with 2 J-FET contained in a CPH6 package currently in use, improving the mounting efficiency greatly
- The CPH6904 is formed with two chips, being equivalent to the CPH3910, placed in one package

Specifications

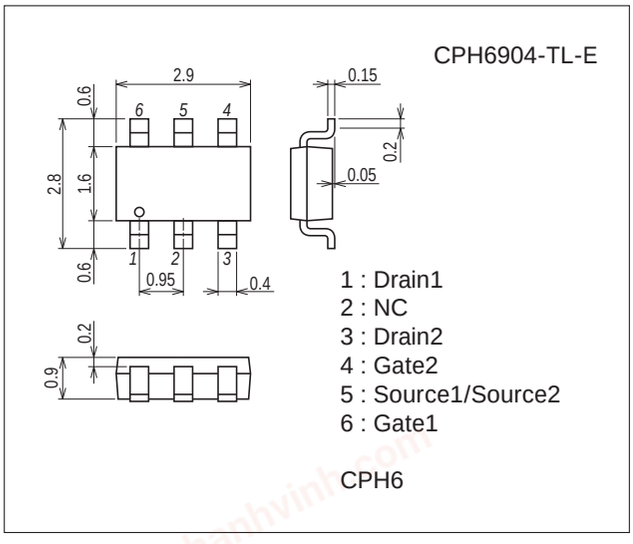
Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	V_{DSX}		25	V
Gate-to-Source Voltage	V_{GDS}		−25	V
Gate Current	I_G		10	mA
Drain Current	I_D		50	mA
Allowable Power Dissipation	P_D	1unit	400	mW
Total Power Dissipation	P_T		700	mW
Channel Temperature	Tch		150	°C
Storage Temperature	Tstg		−55 to +150	°C

Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

Package Dimensions

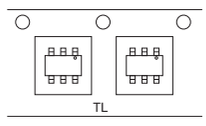
unit : mm (typ)
7018A-015



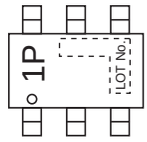
Product & Package Information

- Package : CPH6
- JEITA, JEDEC : SC-74, SOT-26, SOT-457
- Minimum Packing Quantity : 3,000 pcs./reel

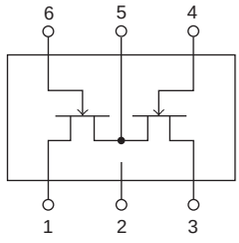
Packing Type: TL



Marking



Electrical Connection



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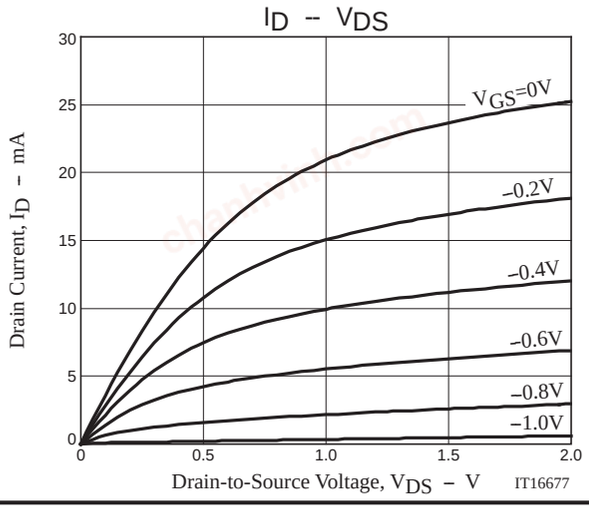
Electrical Characteristics at Ta=25°C

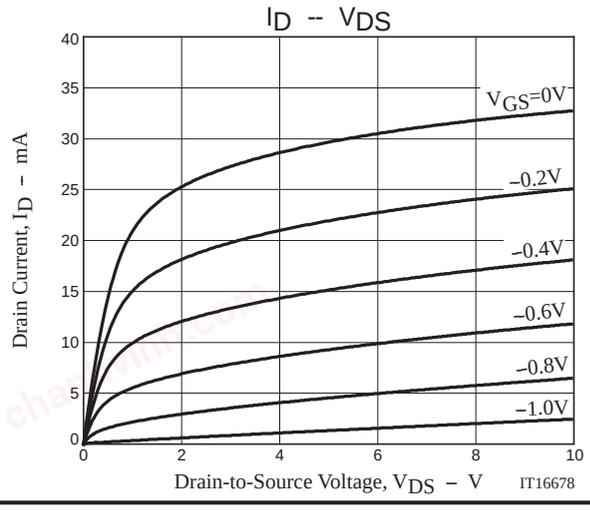
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Gate-to-Drain Breakdown Voltage	$V_{(BR)GDS}$	I_G=–10μA, V_{DS}=0V	–25			V
Gate-to-Source Leakage Current	I_{GSS}	V_{GS}=–10V, V_{DS}=0V			–1.0	nA
Cutoff Voltage	$V_{GS}(off)$	V_{DS}=5V, I_D=100μA	–0.6	–1.2	–1.8	V
Drain Current	I_{DSS}	V_{DS}=5V, V_{GS}=0V	20.0		40.0	mA
Forward Transfer Admittance	| yfs |	V_{DS}=5V, V_{GS}=0V, f=1kHz	30	40		mS
Input Capacitance	Ciss	V_{DS}=5V, V_{GS}=0V, f=1MHz		6.0		pF
Reverse Transfer Capacitance	Crss			2.3		pF
Noise Figure	NF	V_{DS}=5V, V_{GS}=0V, f=100MHz		2.1	2.8	dB

The specifications shown above are for each individual J-FET.

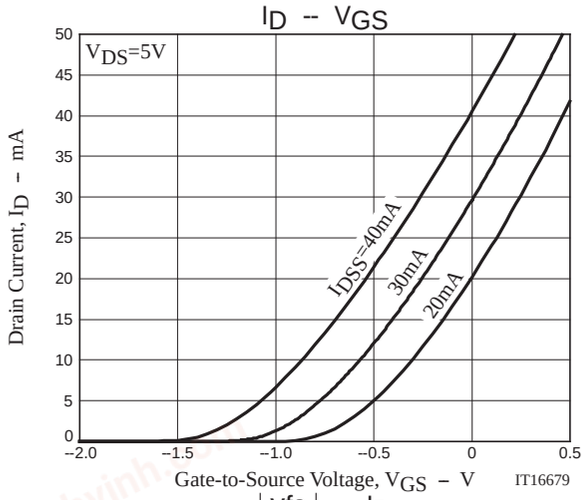
Ordering Information

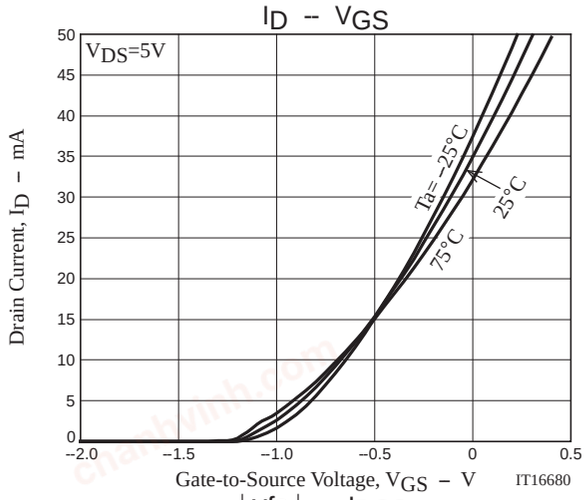
Device	Package	Shipping	memo
CPH6904-TL-E	CPH6	3,000pcs./reel	Pb Free

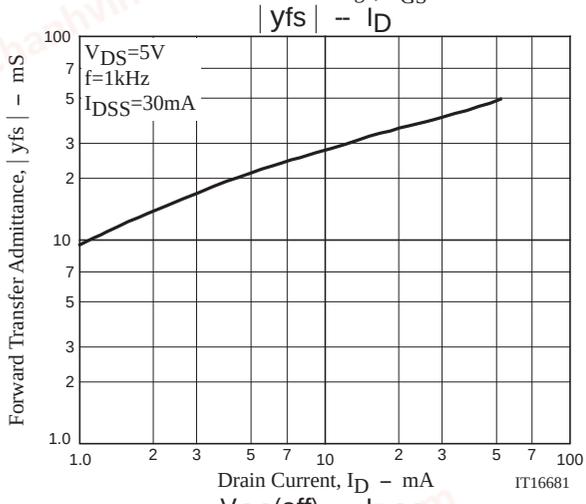


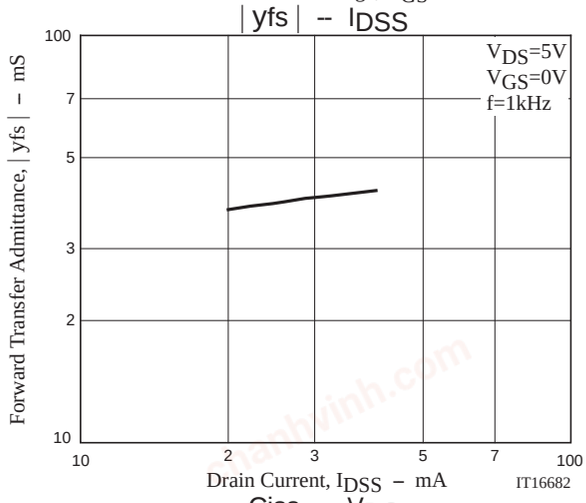


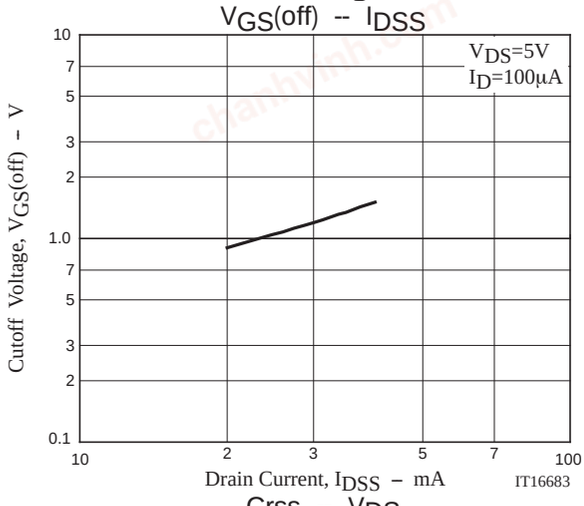
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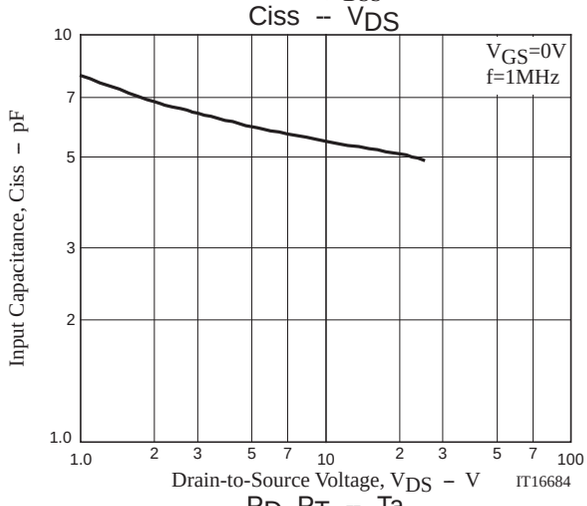


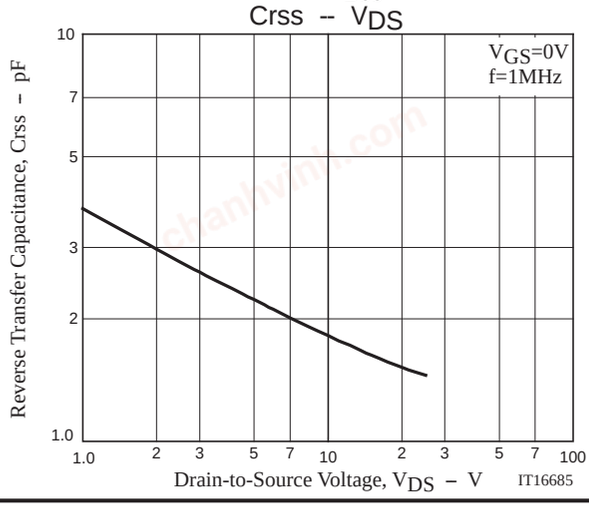


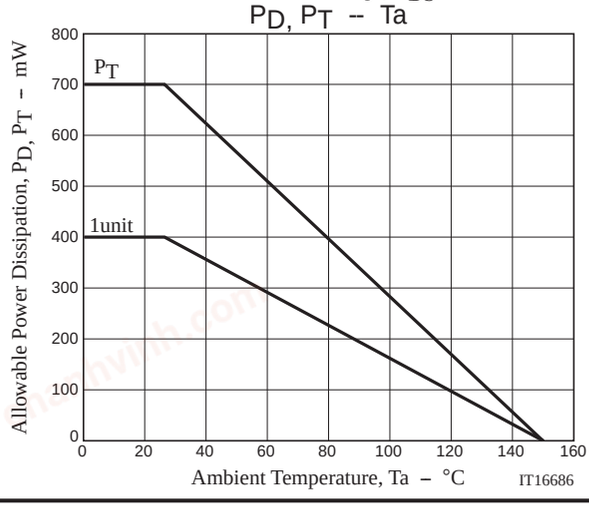












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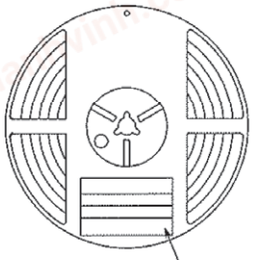
Embossed Taping Specification

CPH6904-TL-E

1. Packing Format

Package Name	Carrier Tape Type	Maximum Number of devices contained (pcs)			Packing format	
		Reel	Inner box	Outer box	Inner BOX (C-1)	Outer BOX (A-7)
CPH6	CPH6	3,000	15,000	90,000	5 reels contained Dimensions:mm (external) 183×72×185	6 inner boxes contained Dimensions:mm (external) 440×195×210

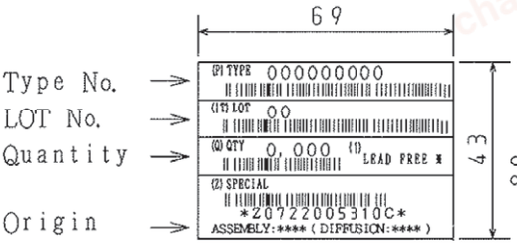
Packing method



Reel label

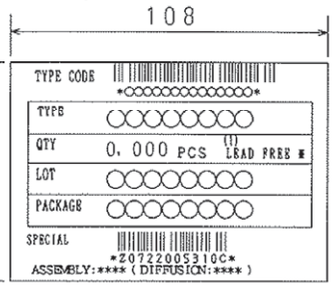
Reel label, Inner box label

(unit:mm)



Outer box label

It is a label at the time of factory shipments. The form of a label may change in physical distribution process.

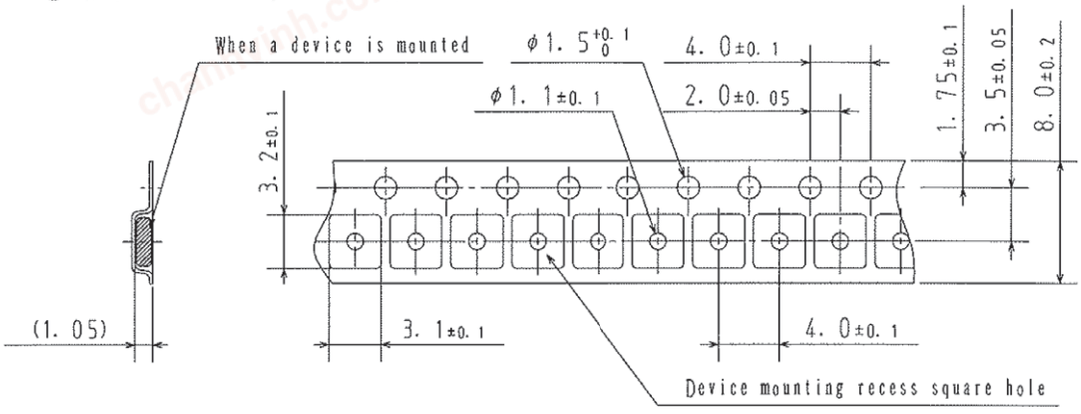


NOTE (1)
The LEAD FREE # description shows that the surface treatment of the terminal is lead free.

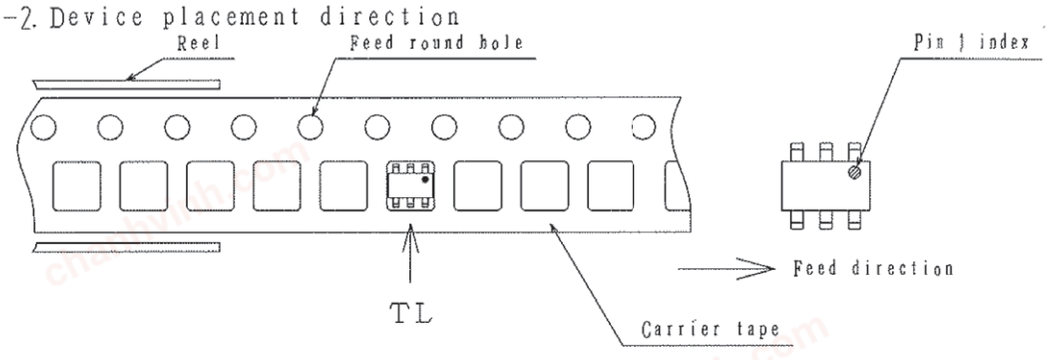
Label	JEITA Phase
LEAD FREE 3	JEITA Phase 3A
LEAD FREE 4	JEITA Phase 3

2. Taping configuration

2-1. Carrier tape size (unit:mm)



2-2. Device placement direction

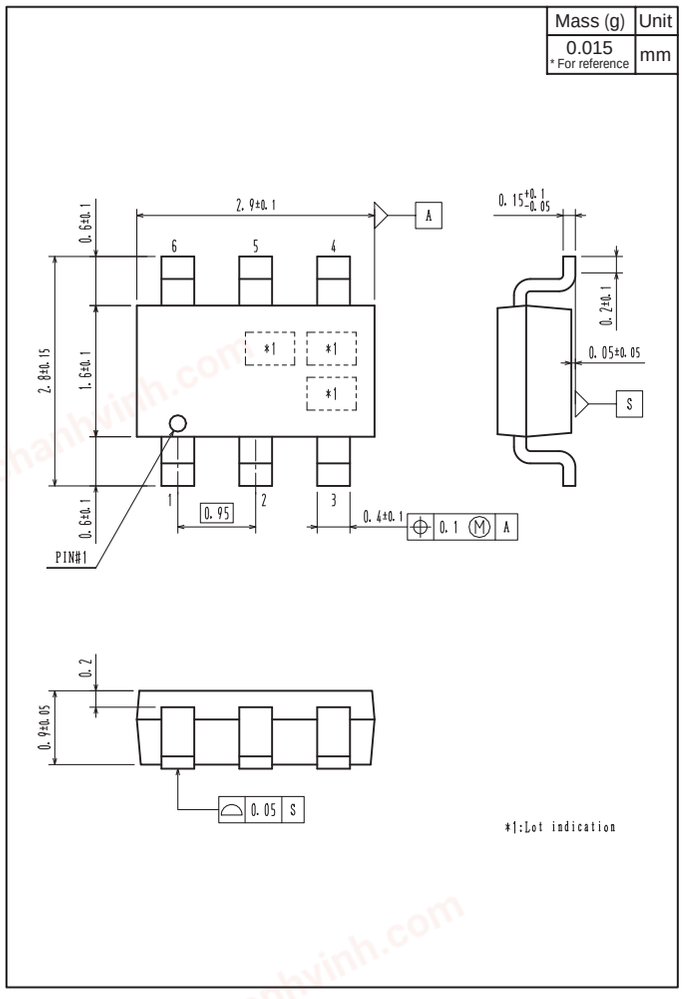


Those with pin 1 index on the feed hole side·····TL

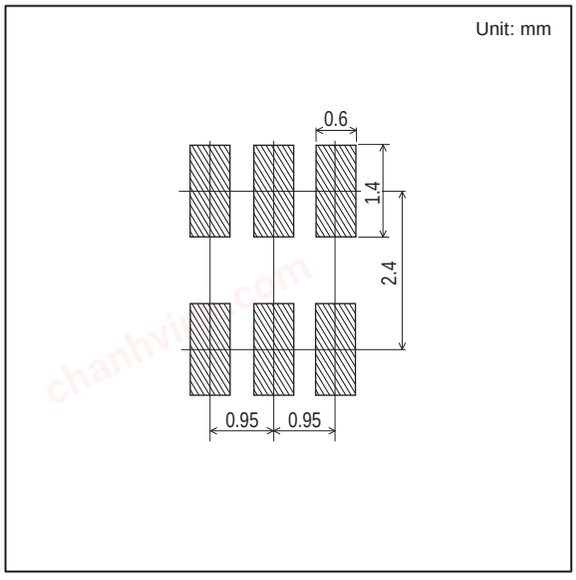
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Outline Drawing

CPH6904-TL-E



Land Pattern Example



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