# **CPH6904**

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



## 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**

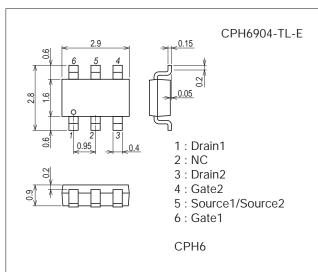
#### Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	VDSX		25	V
Gate-to-Source Voltage	VGDS		-25	V
Gate Current	IG		10	mA
Drain Current	ID		50	mA
Allowable Power Dissipation	PD	1unit	400	mW
Total Power Dissipation	PT		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

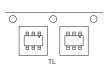
unit : mm (typ) 7018A-015



#### Product & Package Information

- Package
- : CPH6
- JEITA, JEDEC
- Minimum Packing Quantity : 3,000 pcs./reel

# Packing Type: TL

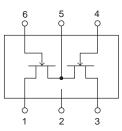




Marking

: SC-74, SOT-26, SOT-457

#### **Electrical Connection**



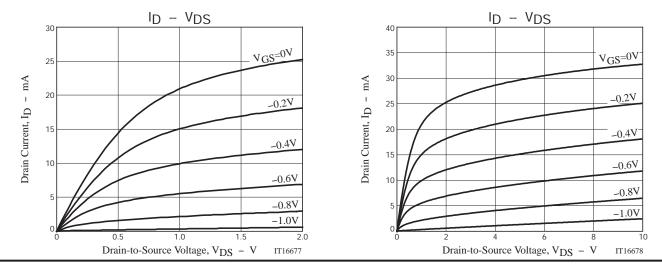
#### Electrical Characteristics at Ta=25°C

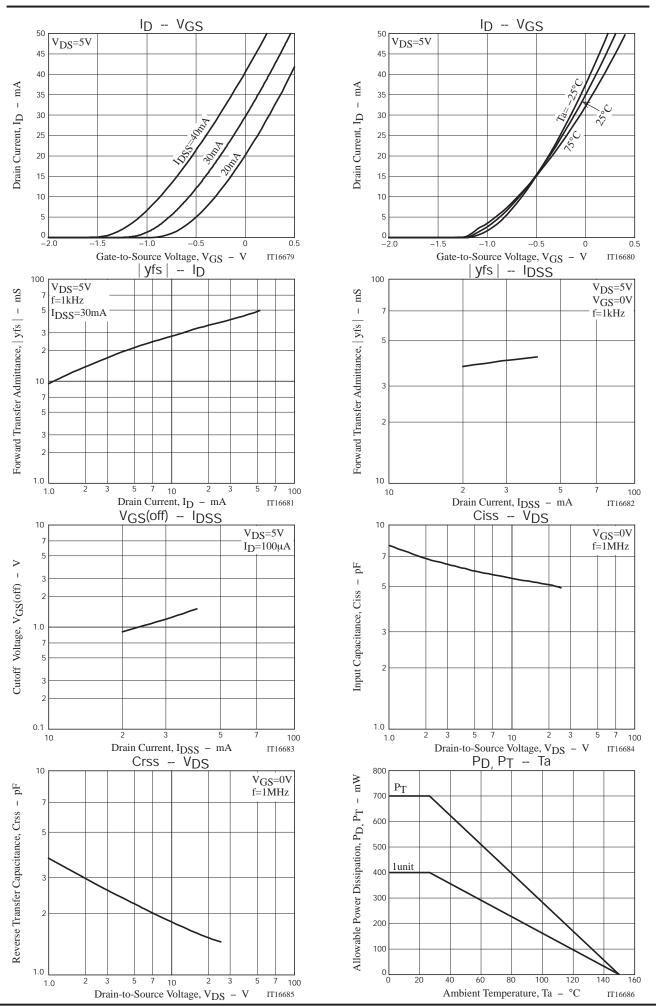
Parameter	Symbol	Conditions	Ratings			Unit	
Parameter	Symbol Conditions		min	typ	max	Unit	
Gate-to-Drain Breakdown Voltage	V(BR)GDS	IG=-10μA, VDS=0V	-25			V	
Gate-to-Source Leakage Current	IGSS	V <sub>GS</sub> =-10V, V <sub>DS</sub> =0V			-1.0	nA	
Cutoff Voltage	V <sub>GS</sub> (off)	V <sub>DS</sub> =5V, I <sub>D</sub> =100µA	-0.6	-1.2	-1.8	V	
Drain Current	IDSS	V <sub>DS</sub> =5V, V <sub>GS</sub> =0V	20.0		40.0	mA	
Forward Transfer Admittance	yfs	VDS=5V, VGS=0V, f=1kHz	30	40		mS	
Input Capacitance	Ciss			6.0		рF	
Reverse Transfer Capacitance	Crss	VDS=5V, VGS=0V, f=1MHz		2.3		рF	
Noise Figure	NF	V <sub>DS</sub> =5V, V <sub>GS</sub> =0V, f=100MHz		2.1	2.8	dB	

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

#### **Ordering Information**

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





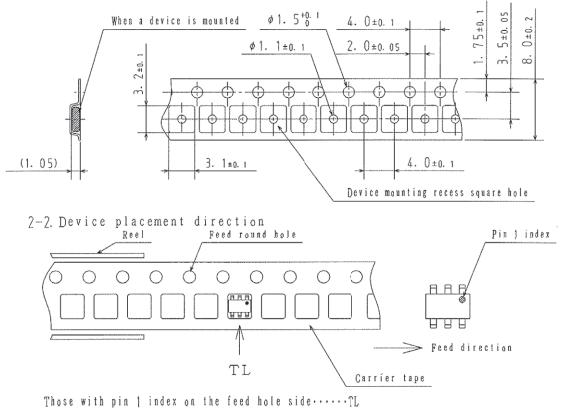
### Embossed Taping Specification CPH6904-TL-E

1. Packing Format

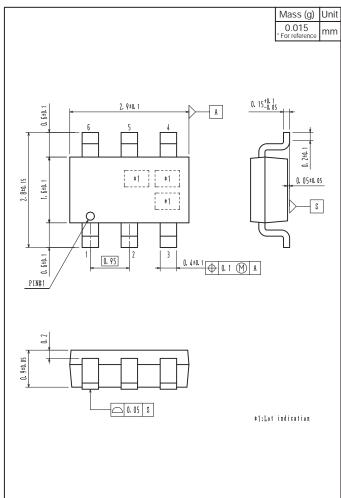
Package Name	Carrier Tape		mum Numbe s contain		Packing		format
	Type	Reel	Inner box	Quter box	Inner BC	X (C-1)	Outer BOX (A-7)
CPH6	CPH6	3, 000	15,000	90,000	5 reels conta	ined	6 inner boxes contained
					Dimensions:m	m (external)	Dimensions:mm (external)
					183×72	×185	440×195×210
Packing met	thod		Reel	(u	(nner box lab nit:mm) 59	It is a The form	<u>box label</u> label at the time of factory shipment n of a label may change in physical lion process. 108
	Type LOT Quan Orig	No. tity		ITYPE 0000 II (IIIII IIIIII) 51 LOT 00 II (IIIII IIIIIII) 20TY 0, 00 SPECIAL II (IIIII IIIIII) SPECIAL II (IIIII IIIII) SSEEMELY: ***** (	200000 HIMI 1990 1991 1991 1991 1990 1990 1990 1991 1991	8 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	YPE CODE IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
,	Reel la	bel		le LEAD F eatment	REE & descript of the termina	ion shows th is lead fr	at the surface
				Label LEAD FRI		Phase	
				LEAD FRI		Turse JV	_

2. Taping configuration

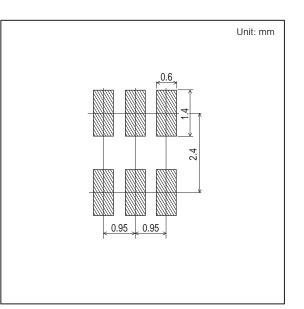
2-1. Carrier tape size (unit:mm)



## Outline Drawing CPH6904-TL-E



# Land Pattern Example



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