### 查询CPH3407供应商

### 捷多邦,专业PCB打样工厂,24小时加急出货

#### Ordering number : ENN6997



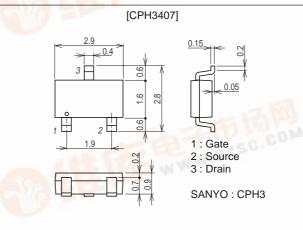
## Features

- Low ON-resistance.
- Ultrahigh-speed switching.
- 2.5V drive.

## Package Dimensions

unit : mm

2152A



# **Specifications**

## Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	VDSS		20	V
Gate-to-Source Voltage	VGSS		±10	V
Drain Current (DC)	۱D		5	А
Drain Current (Pulse)	IDP	PW≤10µs, duty cycle≤1%	20	А
Allowable Power Dissipation	PD	Mounted on a ceramic board (900mm <sup>2</sup> X0.8mm)	1.2	W
Channel Temperature	Tch		150	°C
Storage Temperature	Tstg		-55 to +150	°C

### Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
Drain-to-Source Breakdown Voltage	V(BR)DSS	ID=1mA, VGS=0	20			V
Zero-Gate Voltage Drain Current	IDSS	V <sub>DS</sub> =20V, V <sub>GS</sub> =0			1	μΑ
Gate-to-Source Leakage Current	IGSS	VGS=±8V, VDS=0			±10	μΑ
Cutoff Voltage	VGS(off)	V <sub>DS</sub> =10V, I <sub>D</sub> =1mA	0.4		1.3	V
Forward Transfer Admittance	yfs	V <sub>DS</sub> =10V, I <sub>D</sub> =3A	7	10	20.2	S
Static Drain-to-Source On-State Resistance	R <sub>DS</sub> (on)1	ID=3A, VGS=4V	Sec. F	28	37	mΩ
	R <sub>DS</sub> (on)2	ID=1A, VGS=2.5V	1000	35	50	mΩ

Marking : KG

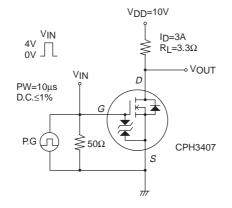
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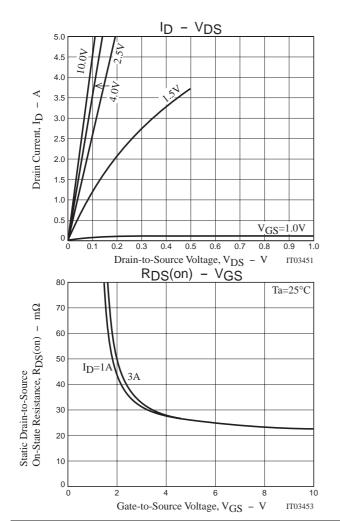
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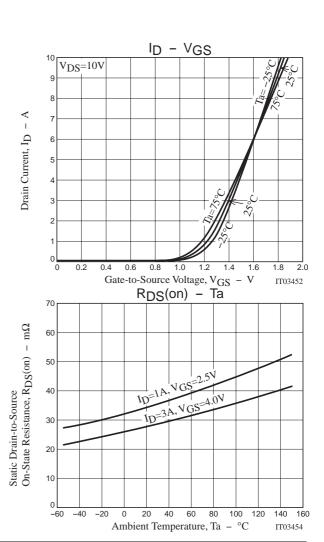
SANYO Electric Co., Ltd. Semiconductor Company TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN Continued from preceding page.

Parameter	Symbol	Conditions		Ratings		
			min	typ	max	Unit
Input Capacitance	Ciss	V <sub>DS</sub> =10V, f=1MHz		630		pF
Output Capacitance	Coss	V <sub>DS</sub> =10V, f=1MHz		160		pF
Reverse Transfer Capacitance	Crss	VDS=10V, f=1MHz		95		pF
Turn-ON Delay Time	t <sub>d</sub> (on)	See specified Test Circuit		13		ns
Rise Time	tr	See specified Test Circuit		110		ns
Turn-OFF Delay Time	td(off)	See specified Test Circuit		47		ns
Fall Time	tf	See specified Test Circuit		65		ns
Total Gate Charge	Qg	V <sub>DS</sub> =10V, V <sub>GS</sub> =4V, I <sub>D</sub> =5A		7.3		nC
Gate-to-Source Charge	Qgs	VDS=10V, VGS=4V, ID=5A		1.4		nC
Gate-to-Drain "Miller" Charge	Qgd	V <sub>DS</sub> =10V, V <sub>GS</sub> =4V, I <sub>D</sub> =5A		2.1		nC
Diode Forward Voltage	VSD	IS=5A, VGS=0		0.8	1.2	V

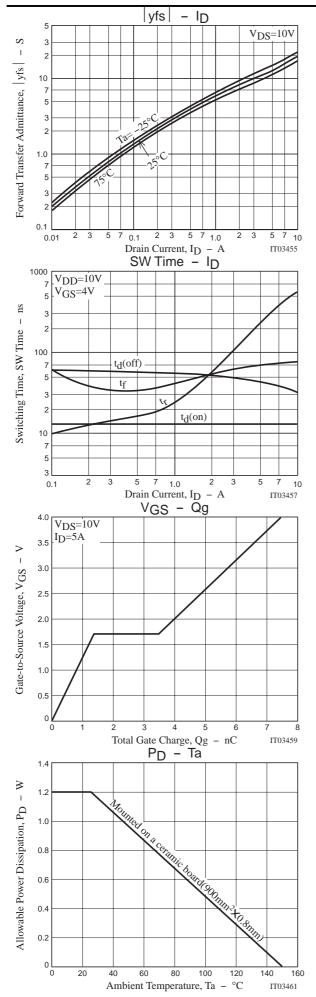
# Switching Time Test Circuit

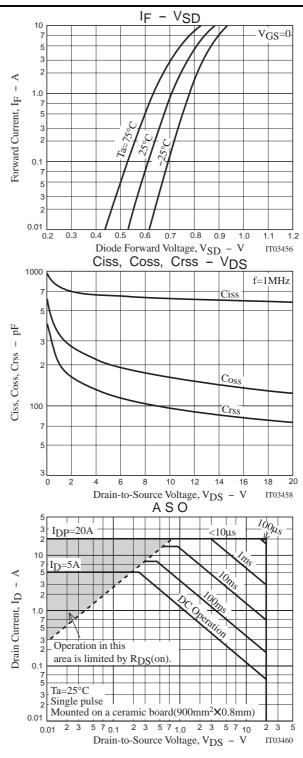






# CPH3407





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