查询CPH3418供应商

捷多邦,专业PCB打样工厂,24小时加急出货

Ordering number : ENN7745



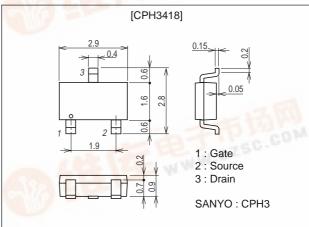
Features

- Low ON-resistance.
- Ultrahigh-speed switching.
- 4V drive.

Package Dimensions

unit : mm

2152A



Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	VDSS		30	V
Gate-to-Source Voltage	VGSS		±20	V
Drain Current (DC)	۱ _D		1.4	А
Drain Current (Pulse)	IDP	PW≤10µs, duty cycle≤1%	5.6	А
Allowable Power Dissipation	PD	Mounted on a ceramic board (900mm ² ×0.8mm)	0.9	W
Channel Temperature	Tch		150	°C
Storage Temperature	Tstg	30-11 E 2 E	-55 to +150	°C

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Linit
			min	typ	max	Unit
Drain-to-Source Breakdown Voltage	V(BR)DSS	ID=1mA, VGS=0	30			V
Zero-Gate Voltage Drain Current	IDSS	VDS=30V, VGS=0			1	μΑ
Gate-to-Source Leakage Current	IGSS	VGS=±16V, VDS=0			±10	μA
Cutoff Voltage	VGS(off)	V _{DS} =10V, I _D =1mA	1.2		2.6	V
Forward Transfer Admittance	yfs	V _{DS} =10V, I _D =700mA	0.77	1.1		S
Static Drain-to-Source On-State Resistance	R _{DS} (on)1	ID=700mA, VGS=10V		230	300	mΩ
	R _{DS} (on)2	ID=400mA, VGS=4V	1000	400	560	mΩ

Marking : KT

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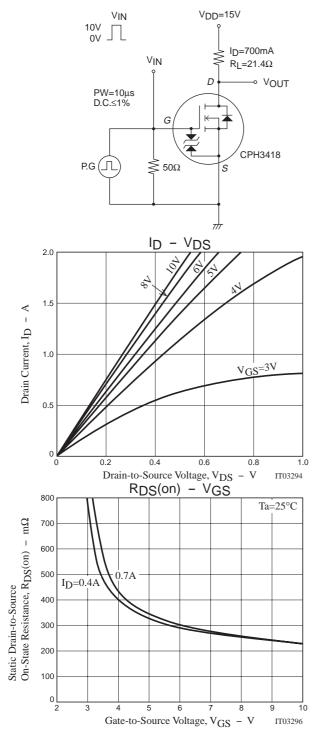
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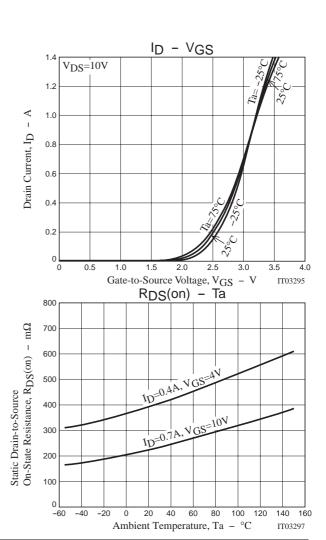
SANYO Electric Co., Ltd. Semiconductor Company TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN

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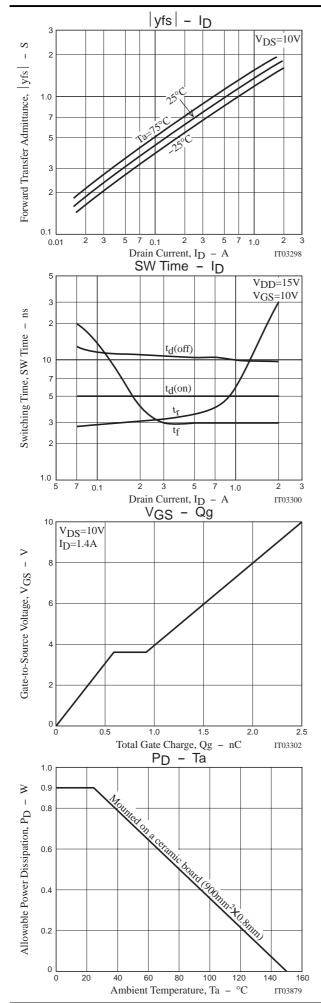
Parameter	Symbol	Conditions		Ratings		
	Symbol		min	typ	max	Unit
Input Capacitance	Ciss	VDS=10V, f=1MHz		65		pF
Output Capacitance	Coss	V _{DS} =10V, f=1MHz		14		pF
Reverse Transfer Capacitance	Crss	V _{DS} =10V, f=1MHz		8		pF
Turn-ON Delay Time	t _d (on)	See specified Test Circuit.		5		ns
Rise Time	tr	See specified Test Circuit.		4		ns
Turn-OFF Delay Time	t _d (off)	See specified Test Circuit.		11		ns
Fall Time	tf	See specified Test Circuit.		3		ns
Total Gate Charge	Qg	V _{DS} =10V, V _{GS} =10V, I _D =1.4A		2.5		nC
Gate-to-Source Charge	Qgs	V _{DS} =10V, V _{GS} =10V, I _D =1.4A		0.6		nC
Gate-to-Drain "Miller" Charge	Qgd	VDS=10V, VGS=10V, ID=1.4A		0.3		nC
Diode Forward Voltage	VSD	I _S =1.4A, V _{GS} =0		0.87	1.2	V

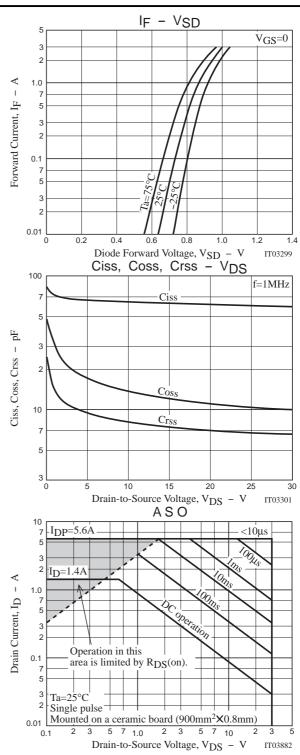
Switching Time Test Circuit





CPH3418





Note on usage : Since the CPH3418 is designed for high-speed switching applications, please avoid using this device in the vicinity of highly charged objects.

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