查询CPH3422供应商

捷多邦,专业PCB打样工厂,24小时加急出货

Ordering number : ENN7536



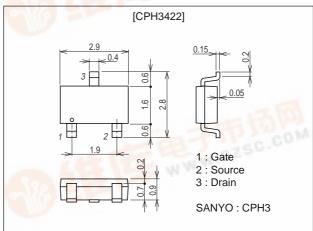
Features

- 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		60	V
Gate-to-Source Voltage	VGSS		±20	V
Drain Current (DC)	۱D		1	А
Drain Current (Pulse)	IDP	PW≤10µs, duty cycle≤1%	4	Α
Allowable Power Dissipation	PD	Mounted on a ceramic board (900mm ² ×0.8mm)	0.9	W
Channel Temperature	Tch		150	°C
Storage Temperature	Tstg		-55 to +150	°C

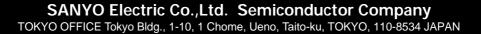
Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Linit
			min	typ	max	Unit
Drain-to-Source Breakdown Voltage	V(BR)DSS	ID=1mA, VGS=0	60			V
Zero-Gate Voltage Drain Current	IDSS	VDS=60V, VGS=0			1	μΑ
Gate-to-Source Leakage Current	IGSS	VGS=±16V, VDS=0			±10	μΑ
Cutoff Voltage	V _{GS} (off)	V _{DS} =10V, I _D =1mA	1.2		2.6	V
Forward Transfer Admittance	yfs	VDS=10V, ID=0.5A	0.45	0.9	22	S
Static Drain-to-Source On-State Resistance	R _{DS} (on)1	ID=0.5A, VGS=10V	Sec. F	480	630	mΩ
	R _{DS} (on)2	I _D =0.5A, V _{GS} =4V	1000	640	900	mΩ

Marking : KX

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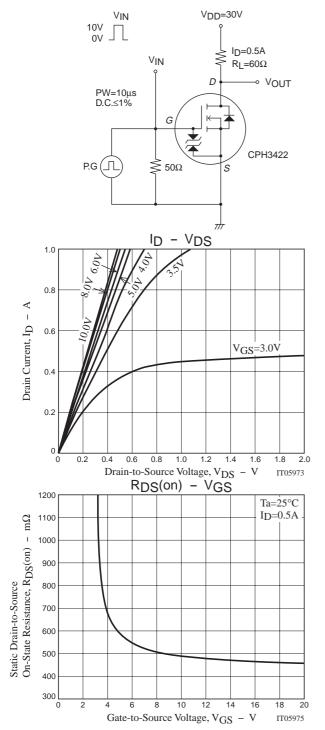
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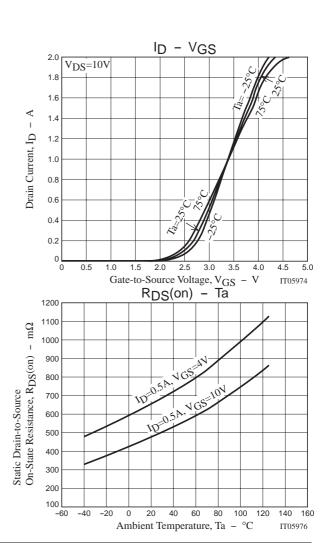


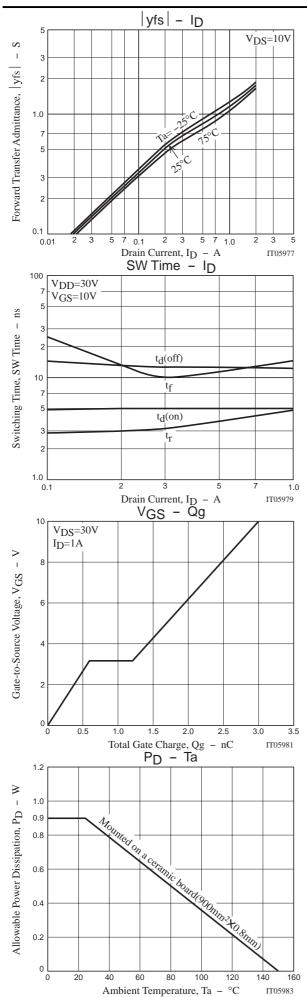
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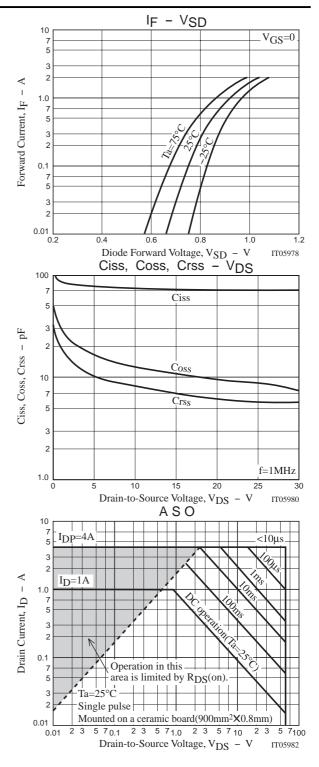
Parameter	Symbol	Conditions		Ratings		
	Symbol		min	typ	max	Unit
Input Capacitance	Ciss	V _{DS} =20V, f=1MHz		70		pF
Output Capacitance	Coss	V _{DS} =20V, f=1MHz		9.0		pF
Reverse Transfer Capacitance	Crss	V _{DS} =20V, f=1MHz		6.5		pF
Turn-ON Delay Time	td(on)	See specified Test Circuit.		5		ns
Rise Time	tr	See specified Test Circuit.		4		ns
Turn-OFF Delay Time	t _d (off)	See specified Test Circuit.		12		ns
Fall Time	tf	See specified Test Circuit.		12		ns
Total Gate Charge	Qg	V _{DS} =30V, V _{GS} =10V, I _D =1A		3.0		nC
Gate-to-Source Charge	Qgs	V _{DS} =30V, V _{GS} =10V, I _D =1A		0.6		nC
Gate-to-Drain "Miller" Charge	Qgd	VDS=30V, VGS=10V, ID=1A		0.6		nC
Diode Forward Voltage	VSD	IS=1A, VGS=0		0.9	1.2	V

Switching Time Test Circuit









CPH3422

Note on usage : Since the CPH3422 is designed for high-speed switching applications, please avoid using this device in the vicinity of highly charged objects.

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