

SANYO Semiconductors DATA SHEET

P-Channel Silicon MOSFET

CPH3326— General-Purpose Switching Device Applications

Features

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

Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	VDSS		-100	V
Gate-to-Source Voltage	VGSS		±20	V
Drain Current (DC)	ID		-0.5	Α
Drain Current (Pulse)	IDP	PW≤10μs, duty cycle≤1%	-2	Α
Allowable Power Dissipation	PD	Mounted on a ceramic board (900mm ² X0.8mm)	1	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	Urill
Drain-to-Source Breakdown Voltage	V(BR)DSS	ID=-1mA, VGS=0	-100			V
Zero-Gate Voltage Drain Current	IDSS	V _{DS} =-100V, V _{GS} =0			-1	μΑ
Gate-to-Source Leakage Current	IGSS	V _{GS} =±16V, V _{DS} =0			±10	μΑ
Cutoff Voltage	VGS(off)	V _D S=-10V, I _D =-1mA	-1.2		-2.6	V
Forward Transfer Admittance	yfs	V _{DS} =-10V, I _D =-250mA	0.4	0.8		S
Static Drain-to-Source On-State Resistance	R _{DS} (on)1	I _D =-250mA, V _G S=-10V		1.55	2.0	Ω
	RDS(on)2	ID=-250mA, VGS=-4V		1.8	2.5	Ω
Input Capacitance	Ciss	V _{DS} =-20V, f=1MHz		165		pF
Output Capacitance	Coss	V _{DS} =-20V, f=1MHz		11		pF
Reverse Transfer Capacitance	Crss	V _{DS} =-20V, f=1MHz		9.0		pF
Turn-ON Delay Time	t _d (on)	See specified Test Circuit.		7		ns
Rise Time	t _r	See specified Test Circuit.		3.3		ns
Turn-OFF Delay Time	t _d (off)	See specified Test Circuit.		32		ns
Fall Time	tf	See specified Test Circuit.		15		ns

Marking: YB Continued on next page.

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www.DataSheet4U.com Continued from preceding page. Ratings Parameter Symbol Conditions Unit typ Total Gate Charge Qg VDS=-50V, VGS=-10V, ID=-0.5A nC Gate-to-Source Charge Qgs V_{DS} =-50V, V_{GS} =-10V, I_{D} =-0.5A 0.8 nC VDS=-50V, VGS=-10V, ID=-0.5A Gate-to-Drain "Miller" Charge Qgd 0.8 nC

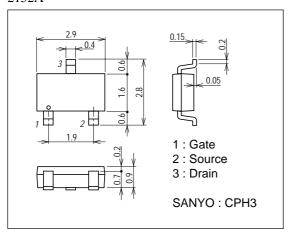
Is=-0.5A, Vgs=0

VSD

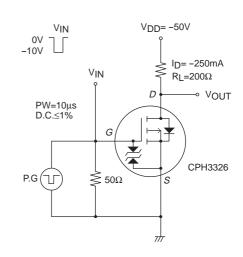
Package Dimensions

Diode Forward Voltage

unit : mm 2152A

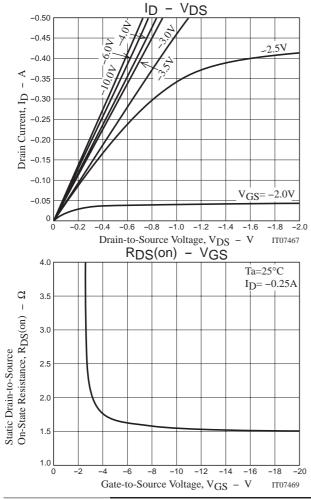


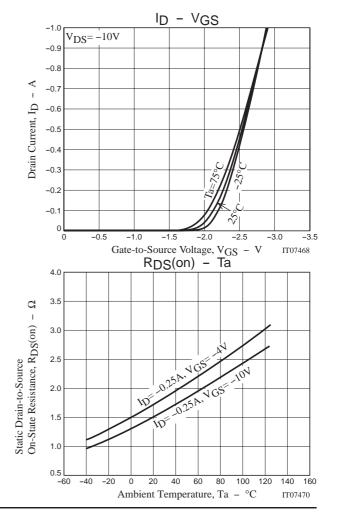
Switching Time Test Circuit

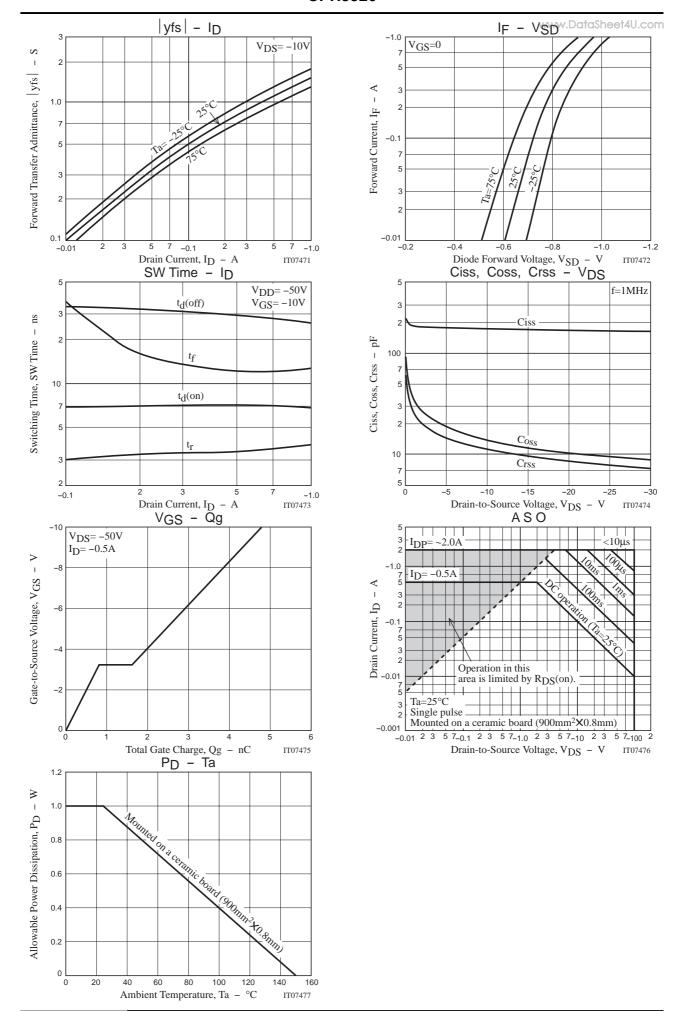


-0.87

-1.2







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Note on usage : Since the CPH3326 is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.

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PS No.7913-4/4