

CPH3323

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	V _{DSS}		-60	V
Gate-to-Source Voltage	V _{GSS}		±20	V
Drain Current (DC)	I _D		-1	A
Drain Current (Pulse)	I _{DP}	PW≤10μs, duty cycle≤1%	-4	A
Allowable Power Dissipation	P _D	Mounted on a ceramic board (900mm²X0.8mm)	1	W
Channel Temperature	T _{ch}		150	°C
Storage Temperature	T _{stg}		-55 to +150	°C

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Drain-to-Source Breakdown Voltage	V _{(BR)DSS}	I _D =-1mA, V _{GS} =0	-60			V
Zero-Gate Voltage Drain Current	I _{DSS}	V _{DS} =-60V, V _{GS} =0			-1	μA
Gate-to-Source Leakage Current	I _{GSS}	V _{GS} =±16V, V _{DS} =0			±10	μA
Cutoff Voltage	V _{GS(off)}	V _{DS} =-10V, I _D =-1mA	-1.2		-2.6	V
Forward Transfer Admittance	y _{fs}	V _{DS} =-10V, I _D =-0.5A	0.6	1.2		S
Static Drain-to-Source On-State Resistance	R _{DS(on)1}	I _D =-0.5A, V _{GS} =-10V		0.58	0.76	Ω
	R _{DS(on)2}	I _D =-0.5A, V _{GS} =-4V		0.78	1.1	Ω
Input Capacitance	C _{iss}	V _{DS} =-20V, f=1MHz		180		pF
Output Capacitance	C _{oss}	V _{DS} =-20V, f=1MHz		15		pF
Reverse Transfer Capacitance	C _{rss}	V _{DS} =-20V, f=1MHz		11		pF
Turn-ON Delay Time	t _{d(on)}	See specified Test Circuit.		8		ns
Rise Time	t _r	See specified Test Circuit.		3		ns
Turn-OFF Delay Time	t _{d(off)}	See specified Test Circuit.		30		ns
Fall Time	t _f	See specified Test Circuit.		25		ns

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