

TENTATIVE

Features and Applications

- Low ON-state resistance.
- Very high-speed switching.
- 2.5V drive.

Absolute Maximum Ratings / Ta=25°C

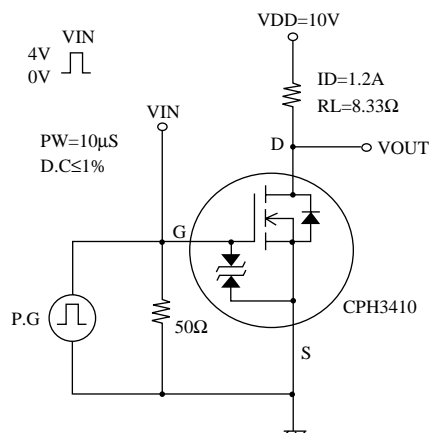
			unit
Drain to Source Voltage	VDSS	20	V
Gate to Source Voltage	VGSS	±10	V
Drain Current (DC)	ID	2.5	A
Drain Current (Pulse)	IDP	PW≤10μs, duty cycle≤1%	10
Allowable power Dissipation	PD	Mounted on ceramic board(900mm ² × 0.8mm)	1
Channel Temperature	Tch	150	°C
Storage Temperature	Tstg	-55 to +150	°C

Electrical Characteristics / Ta=25°C

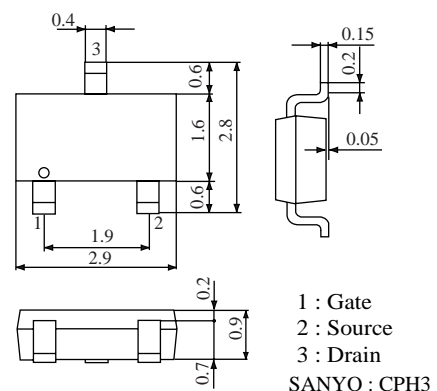
			min	typ	max	unit
Drain to Source Breakdown Voltage	V(BR)DSS	ID=1mA , VGS=0	20			V
Zero Gate Voltage Drain Current	IDSS	VDS=20V , VGS=0			10	μA
Gate to Source Leakage Current	IGSS	VGS=±8V , VDS=0			±10	μA
Cutoff Voltage	VGS(off)	VDS=10V , ID=1mA	0.5		1.3	V
Forward Transfer Admittance	yfs	VDS=10V , ID=1.2A	2.8	4		S
Static Drain to Source on State Resistance	RDS(on) 1	ID=1.2A , VGS=4V		80	105	mΩ
	RDS(on) 2	ID=0.6A , VGS=2.5V		110	155	mΩ
Input Capacitance	Ciss	VDS=10V , f=1MHz		200		pF
Output Capacitance	Coss	VDS=10V , f=1MHz		70		pF
Reverse Transfer Capacitance	Crss	VDS=10V , f=1MHz		45		pF
Turn-ON Delay Time	td(on)	See specified Test Circuit		8		ns
Rise Time	tr	"		30		ns
Turn-oFF Delay Time	td(off)	"		28		ns
Fall Time	tf	"		42		ns
Total Gate Charge	Qg	VDS=10V, VGS=10V, ID=2.5A		7		nC
Gate Source Charge	Qgs		0.5	nC		
Gate Drain Charge	Qgd		1	nC		
Diode Forward Voltage	VSD	IS=2.5A , VGS=0	0.85	1.2		V

Marking :

Switching Time Test Circuit



Package Dimensions (unit:mm)



Specifications and information herein are subject to change without notice.

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