

TENTATIVE

### Features and Applications

- Low ON-state resistance.
- Very High Speed Switching.
- 2.5V drive.

### Absolute Maximum Ratings / Ta=25°C

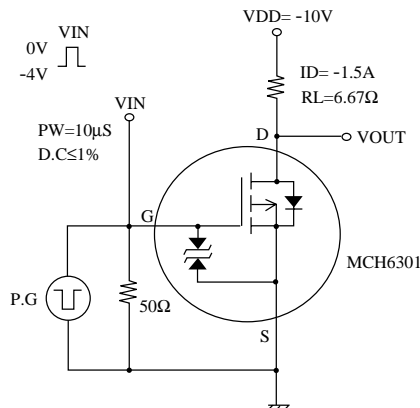
			unit
Drain to Source Voltage	VDSS	-20	V
Gate to Source Voltage	VGSS	±10	V
Drain Current(DC)	ID	-3.0	A
Drain Current(Pulse)	IDP	PW≤10μS, dutycycle≤1%	-12.0 A
Allowable power Dissipation	PD	Mounted on ceramic board(900mm <sup>2</sup> ×0.8mm)	1.5 W
Channel Temperature	Tch		150 °C
Storage Temperature	Tstg		-55 to +150 °C

### Electrical Characteristics / Ta=25°C

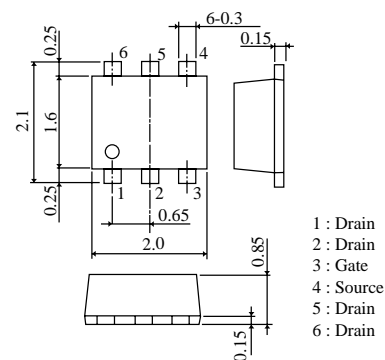
			min	typ	max	unit
Drain to Source Breakdown Voltage	V(BR)DSS	ID=-1mA, VGS=0	-20			V
Zero Gate Voltage Drain Current	IDSS	VDS=-20V, VGS=0			-1	μA
Gate to Source Leakage Current	IGSS	VGS=±8V, VDS=0			±10	μA
Cutoff Voltage	VGS(off)	VDS=-10V, ID=-1mA	-0.4		-1.4	V
Forward Transfer Admittance	yfs	VDS=-10V, ID=-1.5A	2.9	4.2		mS
Static Drain to Source on State Resistance	RDS(on)1	ID=-1.5A, VGS=-4V		90	115	mΩ
	RDS(on)2	ID=-0.7A, VGS=-2.5V		130	180	mΩ
Input Capacitance	Ciss	VDS=-10V, f=1MHz		500		pF
Output Capacitance	Coss	VDS=-10V, f=1MHz		145		pF
Reverse Transfer Capacitance	Crss	VDS=-10V, f=1MHz		100		pF
Turn-ON Delay Time	td(on)	See Specified Test Circuit .		12		ns
Rise Time	tr		42	ns		
Turn-off Delay Time	td(off)		39	ns		
Fall Time	tf		57	ns		
Total Gate Charge	Qg		12.5	nC		
Gate Source Charge	Qgs	VDS=-10V, VGS=-10V, ID=-3.0A	1.2	nC		
Gate Drain Charge	Qgd		1.8	nC		
Diode Forward Voltage	VSD	IS = -3.0A, VGS = 0	-0.83		-1.5	V

Marking : JA

### Switching Time Test Circuit



### Case Outline MCH6(unit:mm)



Specifications and information herein are subject to change without notice.

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