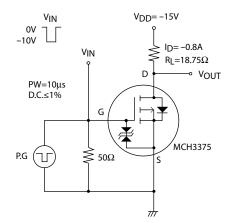
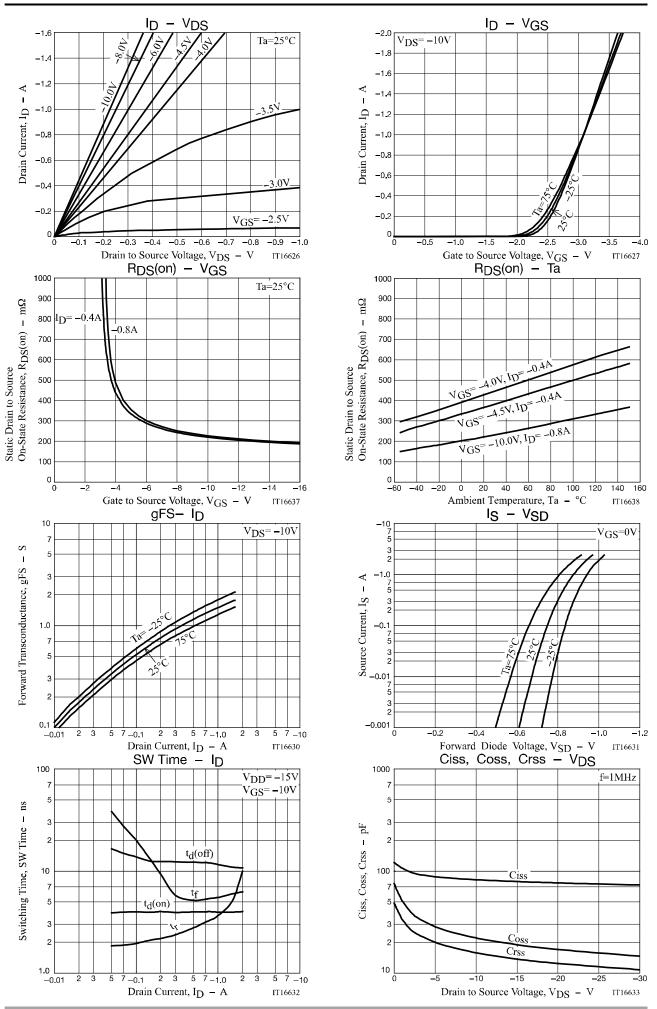
Electrical Characteristics at $Ta = 25^{\circ}C$

Parameter	Symbol	Conditions		Value		
		Conditions	min	typ	max	Unit
Drain to Source Breakdown Voltage	V(BR)DSS	I _D =-1mA, V _{GS} =0V	-30			V
Zero-Gate Voltage Drain Current	IDSS	V _{DS} =-30V, V _{GS} =0V			-1	μA
Gate to Source Leakage Current	IGSS	V _{GS} =±16V, V _{DS} =0V			±10	μA
Gate Threshold Voltage	V _{GS} (th)	V _{DS} =-10V, I _D =-1mA	-1.2		-2.6	V
Forward Transconductance	9FS	V _{DS} =-10V, I _D =-0.8A		1.3		S
Static Drain to Source On-State Resistance	R _{DS} (on)1	I _D =-0.8A, V _{GS} =-10V		227	295	mΩ
	R _{DS} (on)2	I _D =-0.4A, V _{GS} =-4.5V		374	523	mΩ
	R _{DS} (on)3	I _D =-0.4A, V _{GS} =-4V		435	609	mΩ
Input Capacitance	Ciss	V _{DS} =–10V, f=1MHz		82		pF
Output Capacitance	Coss			22		pF
Reverse Transfer Capacitance	Crss			16		pF
Turn-ON Delay Time	t _d (on)	See specified Test Circuit		4.0		ns
Rise Time	tr			3.3		ns
Turn-OFF Delay Time	t _d (off)			12		ns
Fall Time	tf			5.4		ns
Total Gate Charge	Qg	V _{DS} =–15V, V _{GS} =–10V, I _D =–1.6A		2.2		nC
Gate to Source Charge	Qgs			0.36		nC
Gate to Drain "Miller" Charge	Qgd	1		0.49		nC
Forward Diode Voltage	V _{SD}	I _S =-1.6A, V _{GS} =0V		-0.9	-1.5	V

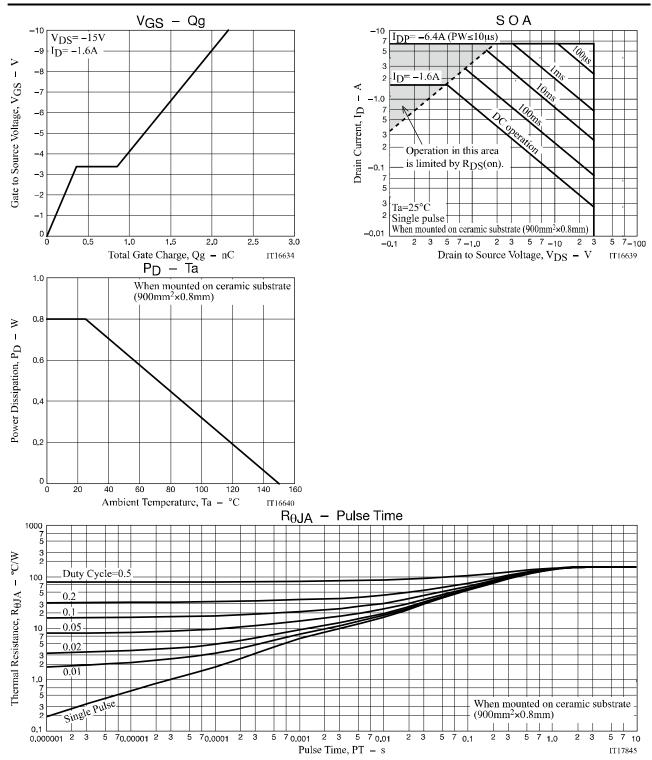
Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

Switching Time Test Circuit





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Package Dimensions

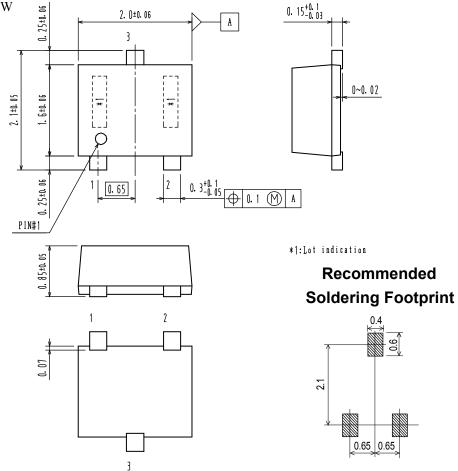
MCH3375-TL-H / MCH3375-TL-W

MCPH3

CASE 419AQ ISSUE O

Unit : mm

- 1 : Gate
- 2 : Source
- 3 : Drain



ORDERING INFORMATION

Device	Package	Shipping	Note	
MCH3375-TL-H	MCPH3	2,000,000, / rool	Pb-Free	
MCH3375-TL-W	SC-70,SOT-323	3,000 pcs. / reel	and Halogen Free	

Note on usage : Since the MCH3375 is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.

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