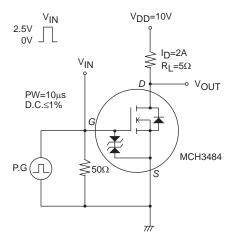
MCH3484

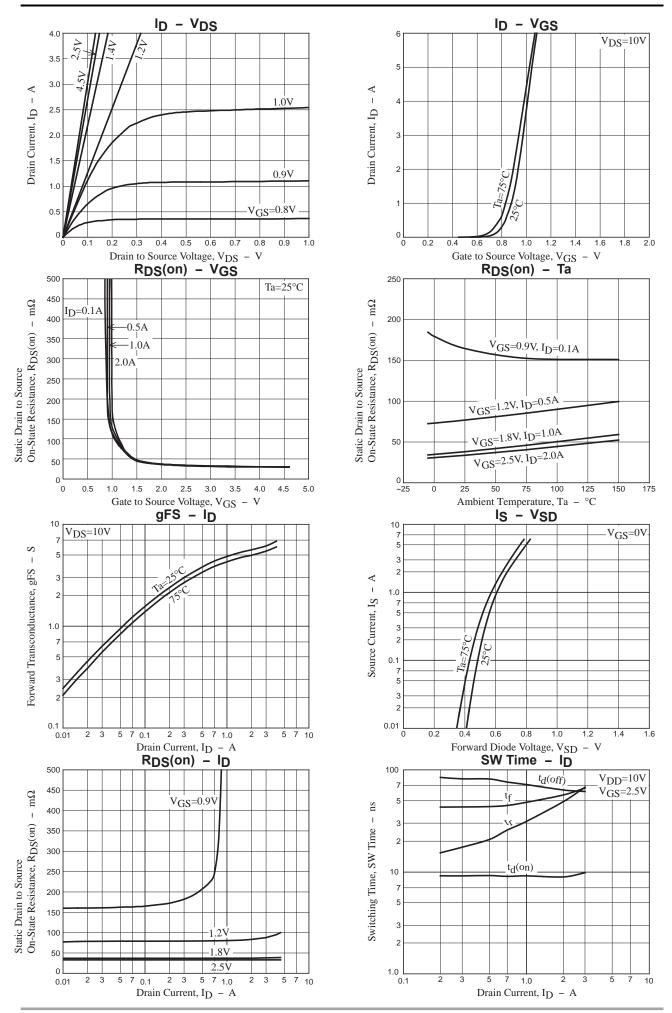
Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions		Value		
			min	typ	max	Unit
Drain to Source Breakdown Voltage	V(BR)DSS	I _D =1mA, V _{GS} =0V	20			V
Zero-Gate Voltage Drain Current	IDSS	V _{DS} =20V, V _{GS} =0V			1	μА
Gate to Source Leakage Current	IGSS	V _{GS} =±4V, V _{DS} =0V			±10	μА
Gate Threshold Voltage	VGS(th)	V _{DS} =10V, I _D =1mA	0.3		0.8	>
Forward Transconductance	gFS .	V _{DS} =10V, I _D =2A		5.6		S
Static Drain to Source On-State Resistance	R _{DS} (on)1	I _D =2A, V _{GS} =2.5V		33	40	mΩ
	R _{DS} (on)2	I _D =1A, V _{GS} =1.8V		37	49	mΩ
	R _{DS} (on)3	I _D =0.5A, V _G S=1.2V		79	119	mΩ
	R _{DS} (on)4	I _D =0.1A, V _{GS} =0.9V		165	330	mΩ
Input Capacitance	Ciss	V _{DS} =10V, f=1MHz		630		pF
Output Capacitance	Coss			75		pF
Reverse Transfer Capacitance	Crss			65		pF
Turn-ON Delay Time	t _d (on)	See specified Test Circuit		8.9		ns
Rise Time	t _r			49		ns
Turn-OFF Delay Time	t _d (off)			63		ns
Fall Time	t _f			57		ns
Total Gate Charge	Qg	V _{DS} =10V, V _{GS} =2.5V, I _D =4.5A		11		nC
Gate to Source Charge	Qgs			0.9		nC
Gate to Drain "Miller" Charge	Qgd			1.8		nC
Forward Diode Voltage	V _{SD}	I _S =4.5A, V _{GS} =0V		0.8	1.2	٧

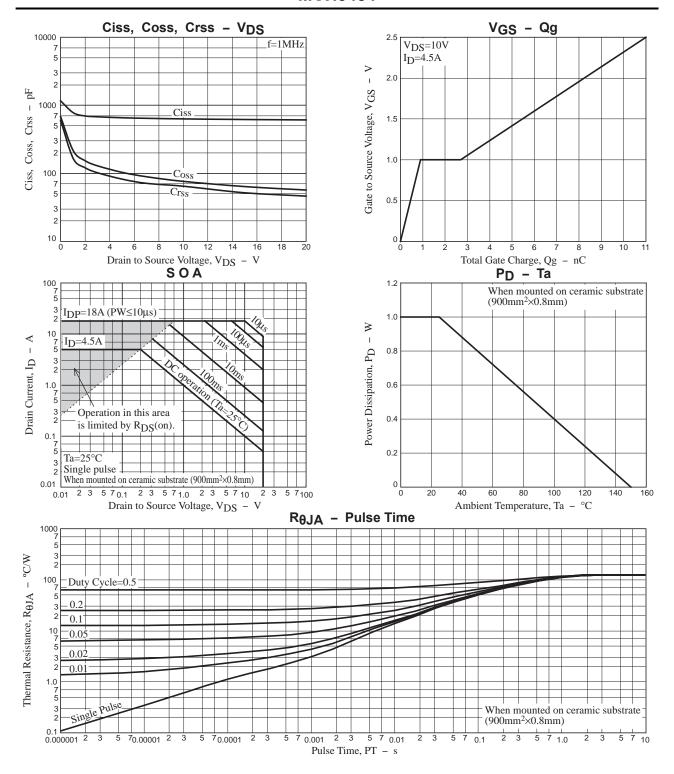
Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

Switching Time Test Circuit





MCH3484



Package Dimensions

MCH3484-TL-H / MCH3484-TL-W

MCPH3

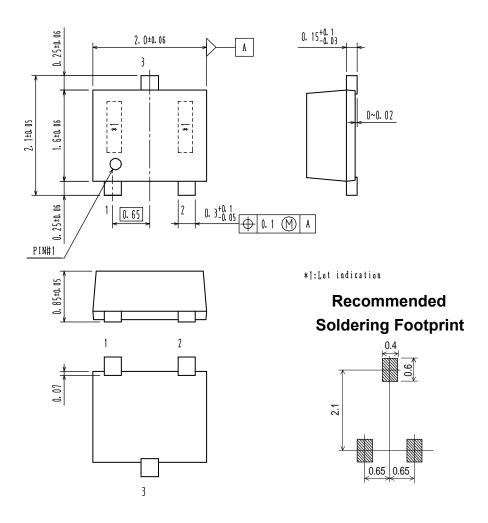
CASE 419AQ ISSUE O

unit: mm

1 : Gate

2 : Source

3: Drain



ORDERING INFORMATION

Device	Package	Shipping	Note	
MCH3484-TL-H	MCPH3	3,000 pcs. / reel	Pb-Free and Halogen Free	
MCH3484-TL-W	SC-70,SOT-323	5,000 pcs. / 1001		

Note on usage: Since the MCH3484 is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.

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