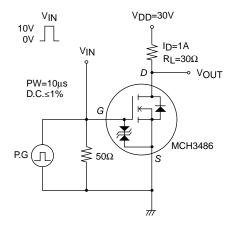
MCH3486

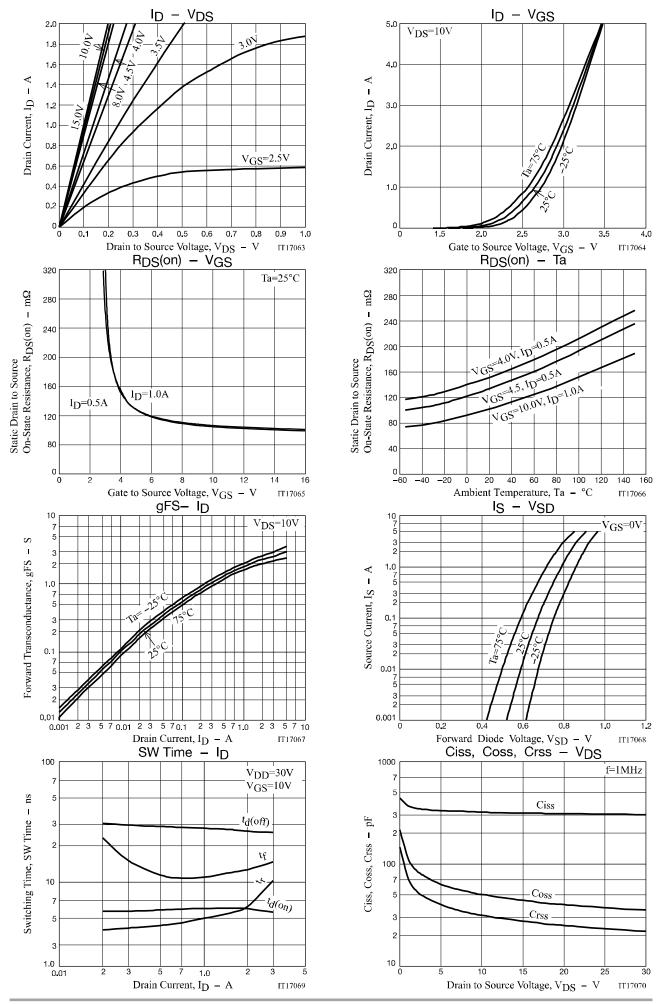
Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Value			11.2
			min	typ	max	Unit
Drain to Source Breakdown Voltage	V(BR)DSS	I _D =1mA, V _G S=0V	60			٧
Zero-Gate Voltage Drain Current	IDSS	V _{DS} =60V, V _{GS} =0V			1	μΑ
Gate to Source Leakage Current	IGSS	V _{GS} =±16V, V _{DS} =0V			±10	μΑ
Gate Threshold Voltage	VGS(th)	V _{DS} =10V, I _D =1mA	1.2		2.6	>
Forward Transconductance	gFS .	V _{DS} =10V, I _D =1A		1.8		S
Static Drain to Source On-State Resistance	R _{DS} (on)1	I _D =1A, V _{GS} =10V		105	137	mΩ
	R _{DS} (on)2	I _D =0.5A, V _G S=4.5V		137	192	mΩ
	R _{DS} (on)3	I _D =0.5A, V _G S=4V		155	217	mΩ
Input Capacitance	Ciss			310		pF
Output Capacitance	Coss	V _{DS} =20V, f=1MHz		40		pF
Reverse Transfer Capacitance	Crss			25		pF
Turn-ON Delay Time	t _d (on)			6		ns
Rise Time	t _r	0		5		ns
Turn-OFF Delay Time	t _d (off)	See specified Test Circuit		28		ns
Fall Time	tf			11		ns
Total Gate Charge	Qg			7		nC
Gate to Source Charge	Qgs	V _{DS} =30V, V _{GS} =10V, I _D =2A		1		nC
Gate to Drain "Miller" Charge	Qgd]		1.3		nC
Forward Diode Voltage	V _{SD}	I _S =2A, V _{GS} =0V		0.83	1.2	V

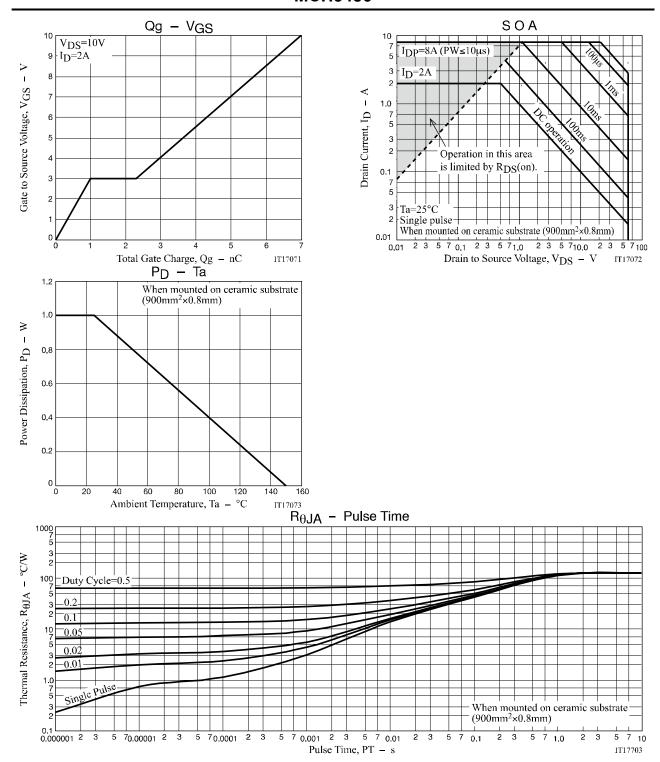
Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

Switching Time Test Circuit





MCH3486



MCH3486

Package Dimensions

MCH3486-TL-H/ MCH3486-TL-W

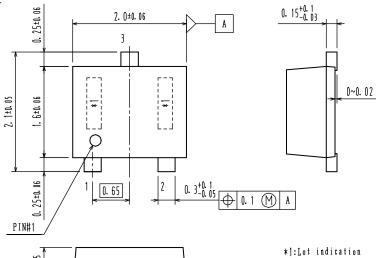
MCPH3

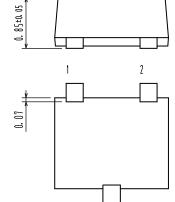
CASE 419AQ ISSUE O

Unit: mm

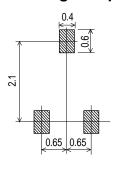
1 : Gate 2 : Source

3: Drain





Recommended Soldering Footprint



Ordering & Package Information

Device	Package	Shipping	Note	
MCH3486-TL-H	MCPH3	3,000 pcs. / reel	Pb-Free and Halogen Free	
MCH3486-TL-W	SC-70,SOT-323	3,000 pcs. / feel		

Note on usage: Since the MCH3486 is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.

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