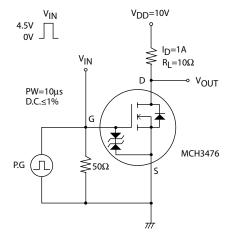
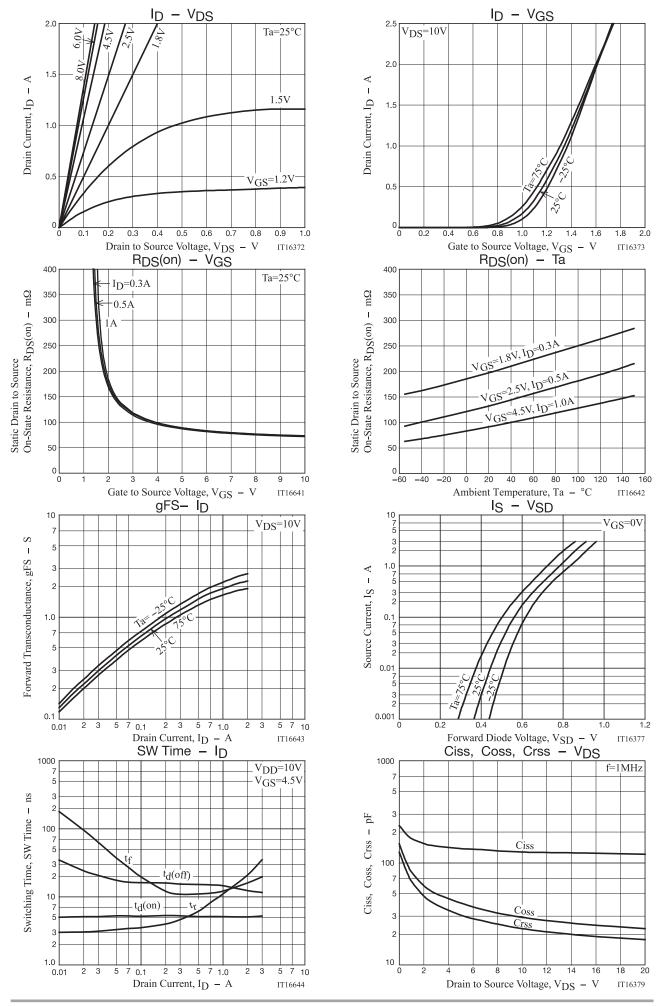
Electrical Characteristics at Ta = 25°C

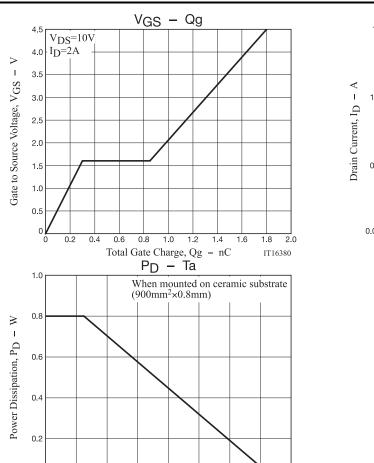
Parameter	Symbol	Conditions	Value			Lloit
			min	typ	max	Unit
Drain to Source Breakdown Voltage	V(BR)DSS	I _D =1mA, V _{GS} =0V	20			٧
Zero-Gate Voltage Drain Current	I _{DSS}	V _{DS} =20V, V _{GS} =0V			1	μΑ
Gate to Source Leakage Current	IGSS	V _{GS} =±8V, V _{DS} =0V			±10	μΑ
Gate Threshold Voltage	V _{GS} (th)	V _{DS} =10V, I _D =1mA	0.4		1.3	V
Forward Transconductance	9FS	V _{DS} =10V, I _D =1A		1.9		S
Static Drain to Source On-State Resistance	R _{DS} (on)1	I _D =1A, V _{GS} =4.5V		93	125	mΩ
	R _{DS} (on)2	I _D =0.5A, V _{GS} =2.5V		135	190	mΩ
	R _{DS} (on)3	I _D =0.3A, V _{GS} =1.8V		200	310	mΩ
Input Capacitance	Ciss	V _{DS} =10V, f=1MHz		128		pF
Output Capacitance	Coss			28		pF
Reverse Transfer Capacitance	Crss			21		pF
Turn-ON Delay Time	t _d (on)			5.1		ns
Rise Time	t _r	See specified Test Circuit		11		ns
Turn-OFF Delay Time	t _d (off)			14.5		ns
Fall Time	t _f	1		12		ns
Total Gate Charge	Qg	V _{DS} =10V, V _{GS} =4.5V, I _D =2A		1.8		nC
Gate to Source Charge	Qgs			0.3		nC
Gate to Drain "Miller" Charge	Qgd	1		0.55		nC
Forward Diode Voltage	V _{SD}	I _S =2A, V _{GS} =0V		0.85	1.2	V

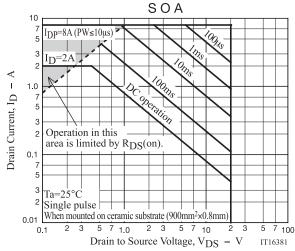
Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

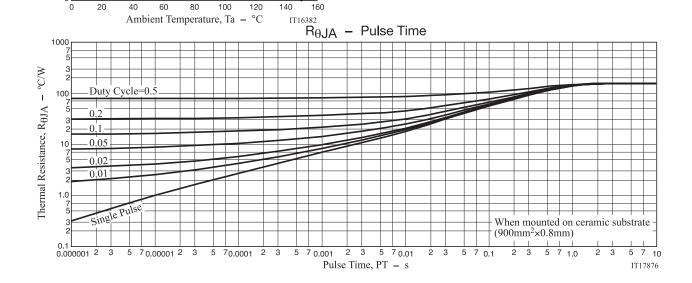
Switching Time Test Circuit











Package Dimensions

MCH3476-TL-H / MCH3476-TL-W

MCPH3

CASE 419AQ ISSUE O

unit: mm

1 : Gate 2 : Source

3: Drain

2. 0±0. 06

2. 0±0. 06

3

4. 0±0. 06

4. 0±0. 06

7. 0±0. 06

7. 0±0. 06

7. 0±0. 06

7. 0±0. 06

7. 0±0. 06

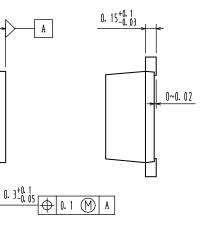
7. 0±0. 06

7. 0±0. 06

7. 0±0. 06

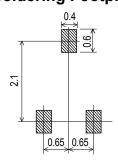
7. 0±0. 06

7. 0±0. 06



*1:Lot indication

Recommended
Soldering Footprint



ORDERING INFORMATION

Device	Package	Shipping	Note	
MCH3476-TL-H	MCPH3	3,000 pcs. / Tape & Reel	Pb-Free	
MCH3476-TL-W	SC-70FL, SOT-323	3,000 pcs. / Tape & Reel	and Halogen Free	

[†] For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D. http://www.onsemi.com/pub_link/Collateral/BRD8011-D.PDF

Note on usage: Since the MCH3476 is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.

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