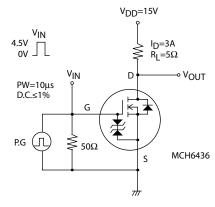
MCH6436

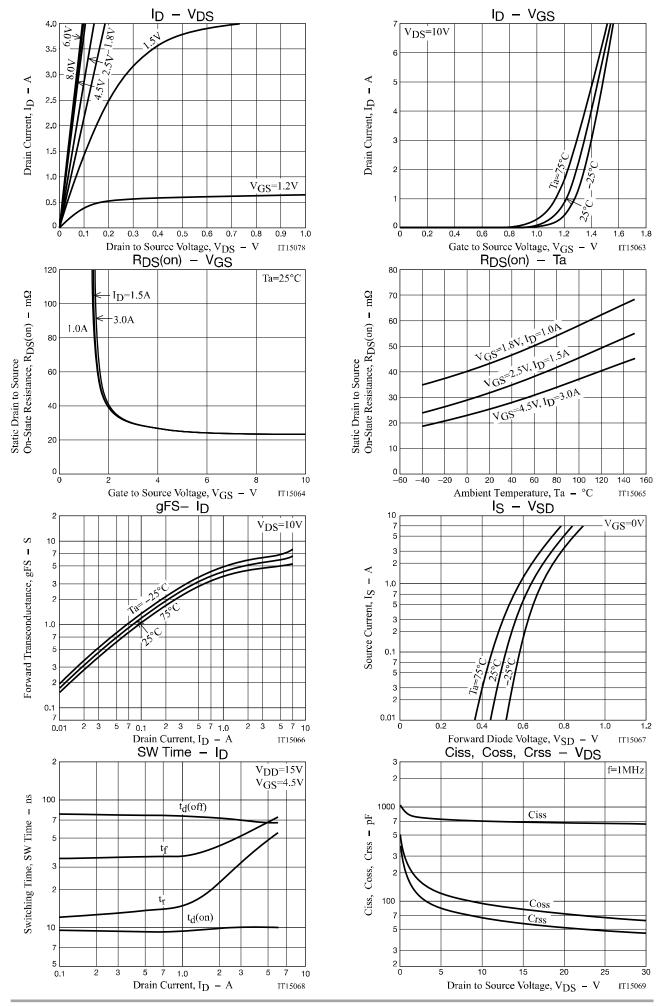
Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Value			11.2
			min	typ	max	Unit
Drain to Source Breakdown Voltage	V(BR)DSS	I _D =1mA, V _{GS} =0V	30			V
Zero-Gate Voltage Drain Current	I _{DSS}	V _{DS} =30V, 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 =3A		5.5		S
Static Drain to Source On-State Resistance	R _{DS} (on)1	I _D =3A, V _{GS} =4.5V		26	34	mΩ
	R _{DS} (on)2	I _D =1.5A, V _{GS} =2.5V		35	49	mΩ
	R _{DS} (on)3	I _D =1A, V _{GS} =1.8V		46	69	mΩ
Input Capacitance	Ciss	V _{DS} =10V, f=1MHz		710		pF
Output Capacitance	Coss			95		pF
Reverse Transfer Capacitance	Crss			65		pF
Turn-ON Delay Time	t _d (on)			11		ns
Rise Time	t _r	On a constitut Total City II		33		ns
Turn-OFF Delay Time	t _d (off)	See specified Test Circuit		70		ns
Fall Time	tf			52		ns
Total Gate Charge	Qg	V _{DS} =10V, V _{GS} =4.5V, I _D =6A		7.5		nC
Gate to Source Charge	Qgs			1.3		nC
Gate to Drain "Miller" Charge	Qgd			1.5		nC
Forward Diode Voltage	V _{SD}	I _S =6A, V _{GS} =0V		0.82	1.2	V

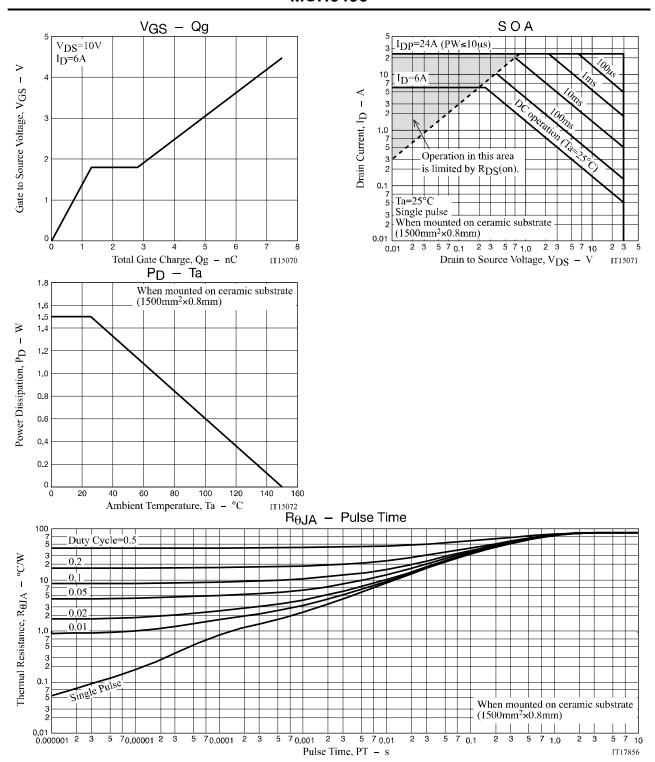
Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

Switching Time Test Circuit





MCH6436



Package Dimensions

MCH6436-TL-E / MCH6436-TL-W

MCPH6

CASE 419AS ISSUE O

unit: mm

1: Drain

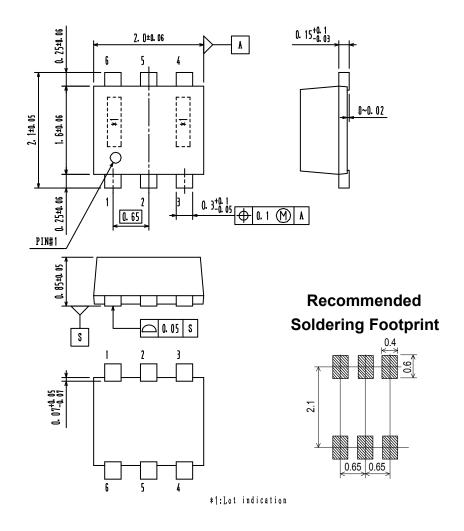
2: Drain

3: Gate

4 : Source

5: Drain

6: Drain



ORDERING INFORMATION

Device	Package	Shipping	Note
MCH6436-TL-E	MCPH6	0 000 /T 0 Dl	Pb-Free
MCH6436-TL-W	SC-88FL,SC-70-6,SOT-363	3,000 pcs. / Tape & Reel	Pb-Free 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 MCH6436 is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.

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