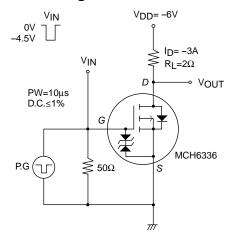
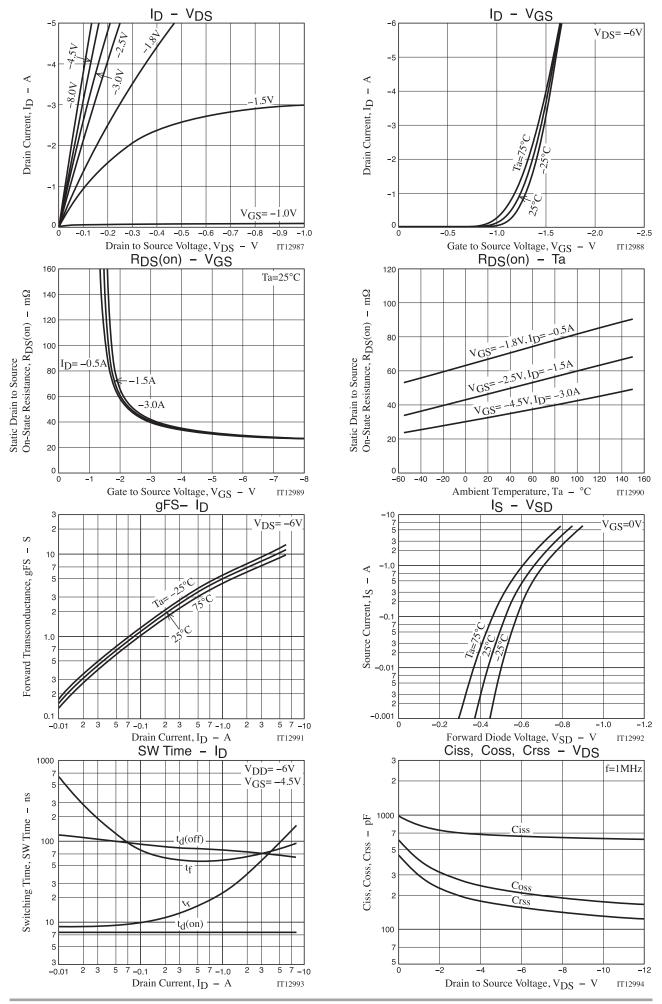
### **Electrical Characteristics** at Ta = 25°C

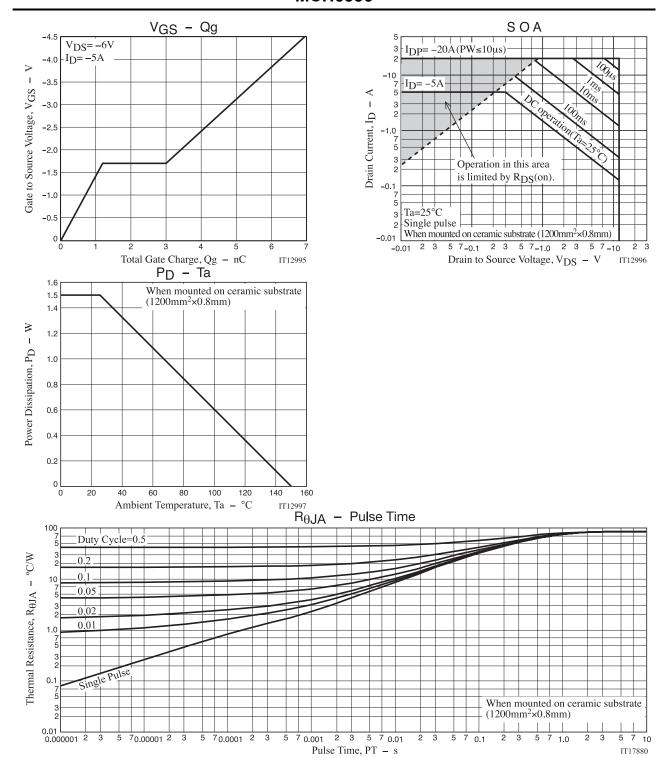
Parameter	Symbol	Conditions	Value			11.2
			min	typ	max	Unit
Drain to Source Breakdown Voltage	V(BR)DSS	I <sub>D</sub> =-1mA, V <sub>GS</sub> =0V	-12			٧
Zero-Gate Voltage Drain Current	IDSS	V <sub>DS</sub> =-12V, V <sub>GS</sub> =0V			-10	μΑ
Gate to Source Leakage Current	IGSS	V <sub>GS</sub> =±8V, V <sub>DS</sub> =0V			±10	μΑ
Gate Threshold Voltage	V <sub>GS</sub> (th)	V <sub>DS</sub> =-6V, I <sub>D</sub> =-1mA	-0.4		-1.4	٧
Forward Transconductance	9FS	V <sub>DS</sub> =-6V, I <sub>D</sub> =-3A	4.8	8.1		S
Static Drain to Source On-State Resistance	R <sub>DS</sub> (on)1	I <sub>D</sub> =-3A, V <sub>GS</sub> =-4.5V		33	43	mΩ
	R <sub>DS</sub> (on)2	I <sub>D</sub> =-1.5A, V <sub>GS</sub> =-2.5V		47	66	mΩ
	R <sub>DS</sub> (on)3	I <sub>D</sub> =-0.5A, V <sub>GS</sub> =-1.8V		68	98	mΩ
Input Capacitance	Ciss	V <sub>DS</sub> =-6V, f=1MHz		660		pF
Output Capacitance	Coss			210		pF
Reverse Transfer Capacitance	Crss			155		pF
Turn-ON Delay Time	t <sub>d</sub> (on)	See specified Test Circuit		7.4		ns
Rise Time	t <sub>r</sub>			57		ns
Turn-OFF Delay Time	t <sub>d</sub> (off)			72		ns
Fall Time	tf			69		ns
Total Gate Charge	Qg	V <sub>DS</sub> =-6V, V <sub>GS</sub> =-4.5V, I <sub>D</sub> =-5A		6.9		nC
Gate to Source Charge	Qgs			1.2		nC
Gate to Drain "Miller" Charge	Qgd	7		1.8		nC
Forward Diode Voltage	V <sub>SD</sub>	I <sub>S</sub> =-5A, V <sub>GS</sub> =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**







### **Package Dimensions**

MCH6336-TL-E / MCH6336-TL-H / MCH6336-TL-W

### **МСРН6**

CASE 419AS ISSUE O

unit: mm

1: Drain

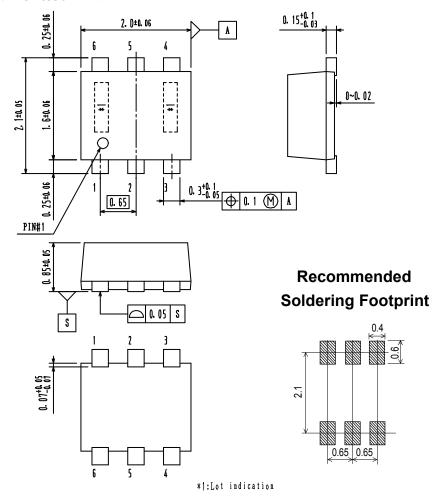
2 : Drain

3: Gate

4 : Source

5: Drain

6: Drain



#### ORDERING INFORMATION

Device	Package	Shipping	Note	
MCH6336-TL-E		3,000 pcs. / Tape & Reel	Pb-Free	
MCH6336-TL-H	MCPH6 SC-88FL,SC-70-6,SOT-363		Pb-Free	
MCH6336-TL-W			and Halogen Free	

<sup>†</sup> 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 MCH6336 is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.

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