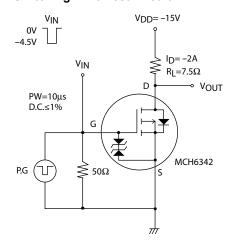
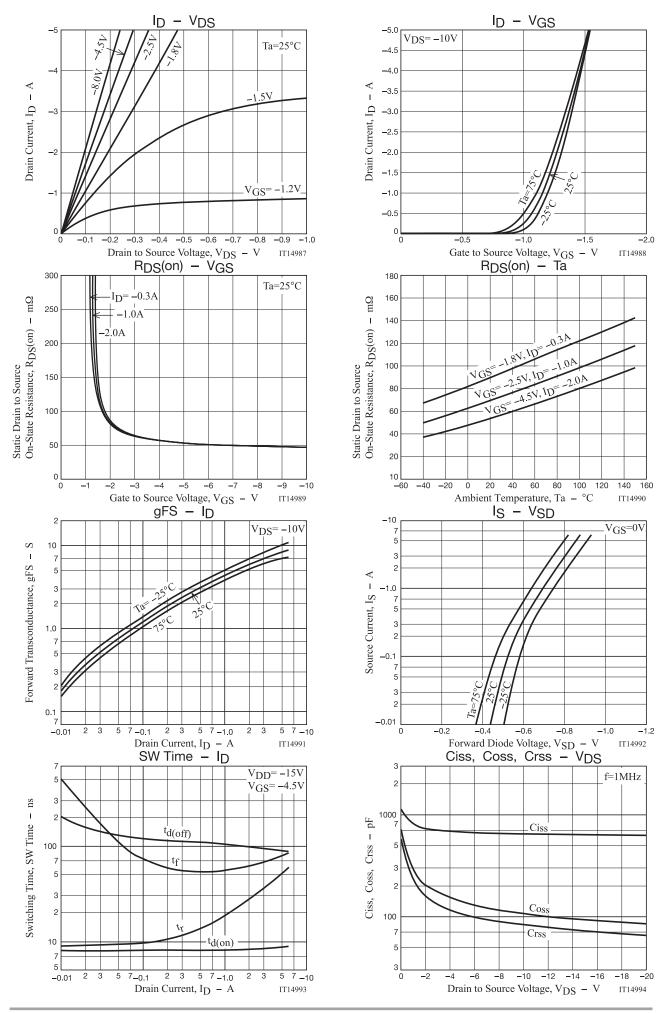
ELECTRICAL CHARACTERISTICS at Ta = 25°C (Note 2)

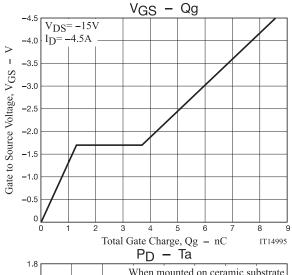
Parameter	Symbol	Conditions	Value			Unit
Farameter		Conditions	min	typ	max	Offic
Drain to Source Breakdown Voltage	V(BR)DSS	I _D =-1mA, V _G S=0V	-30			V
Zero-Gate Voltage Drain Current	IDSS	V _{DS} =-30V, V _{GS} =0V			-1	μΑ
Gate to Source Leakage Current	IGSS	V _{GS} =±8V, V _{DS} =0V			±10	μΑ
Gate Threshold Voltage	VGS(th)	V _{DS} =-10V, I _D =-1mA	-0.4		-1.3	V
Forward Transconductance	gFS	V _{DS} =-10V, I _D =-2A		5.8		S
Static Drain to Source On-State Resistance	R _{DS} (on)1	I _D =-2A, V _G S=-4.5V		56	73	mΩ
	R _{DS} (on)2	I _D =-1A, V _G S=-2.5V		71	99	mΩ
	R _{DS} (on)3	I _D =-0.3A, V _G S=-1.8V		95	155	mΩ
Input Capacitance	Ciss			650		pF
Output Capacitance	Coss	V _{DS} =-10V, f=1MHz		105		pF
Reverse Transfer Capacitance	Crss			83		pF
Turn-ON Delay Time	t _d (on)			8.2		ns
Rise Time	tr	On a supplied Took Observit		28		ns
Turn-OFF Delay Time	t _d (off)	See specified Test Circuit		100		ns
Fall Time	tf			60		ns
Total Gate Charge	Qg			8.6		nC
Gate to Source Charge	Qgs	V _{DS} =-15V, V _{GS} =-4.5V, I _D =-4.5A		1.3		nC
Gate to Drain "Miller" Charge	Qgd			2.4		nC
Forward Diode Voltage	V _{SD}	I _S =-4.5A, V _{GS} =0V		-0.83	-1.2	V

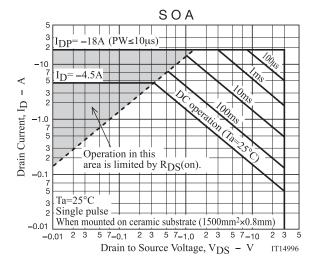
Note 2 : Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

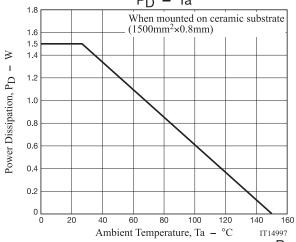
Switching Time Test Circuit

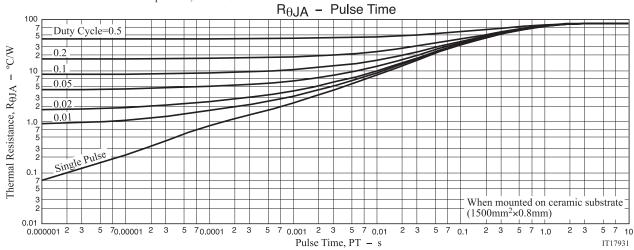








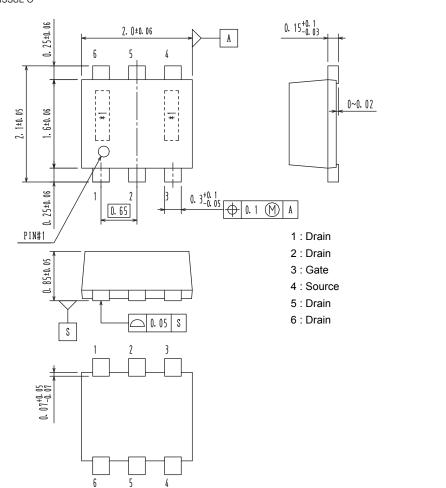




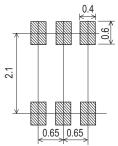
PACKAGE DIMENSIONS

unit: mm

SC-88FL / MCPH6 CASE 419AS ISSUE O



Recommended Soldering Footprint



ORDERING INFORMATION

Device	Marking	Package	Shipping (Qty / Packing)	
MCH6342-TL-H	YR	SC-88FL / MCPH6	3,000 / Tape & Reel	
MCH6342-TL-W	TK .	(Pb-Free / 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 MCH6342 is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.

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