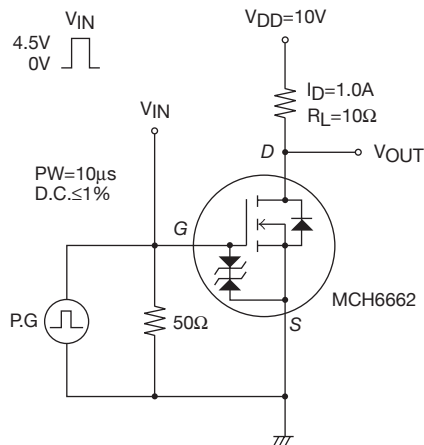
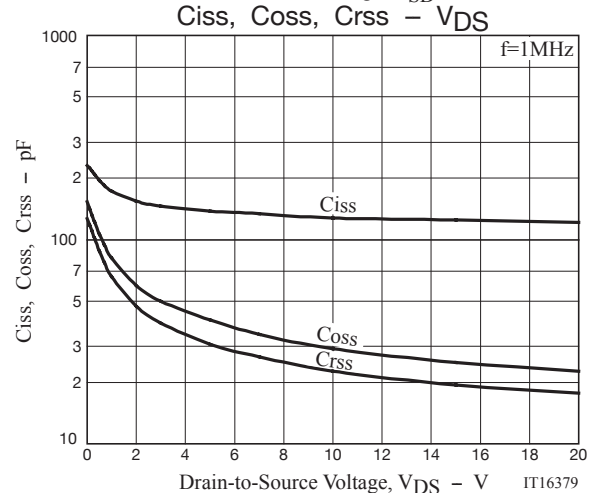
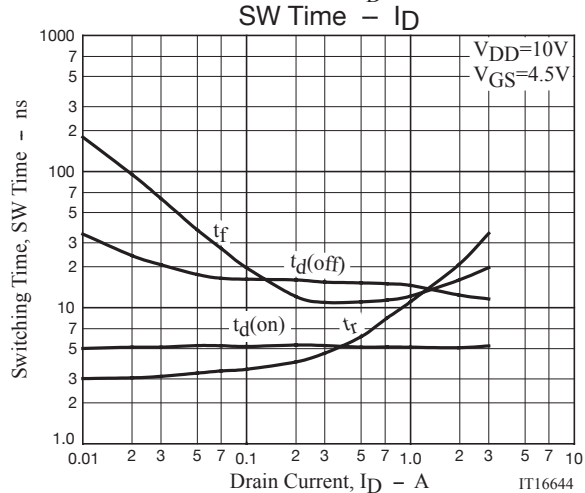
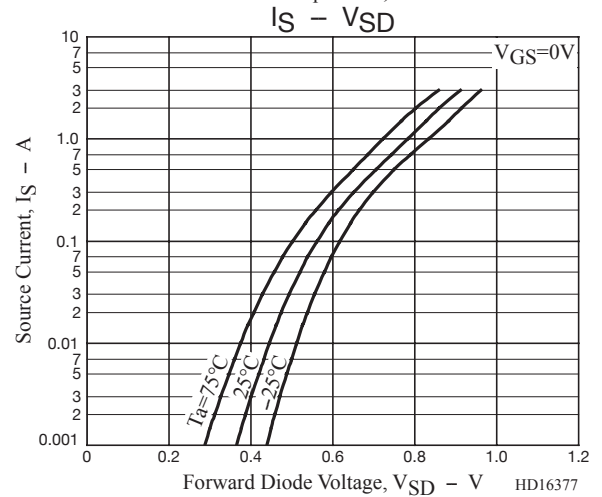
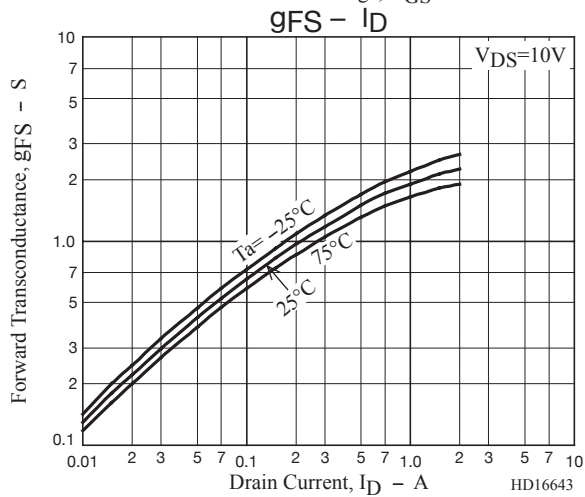
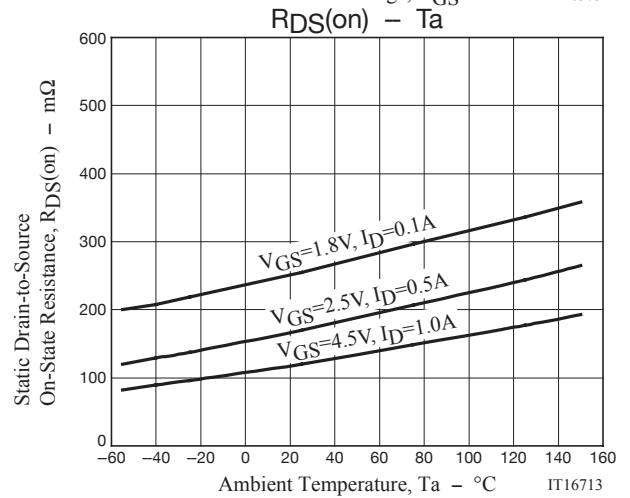
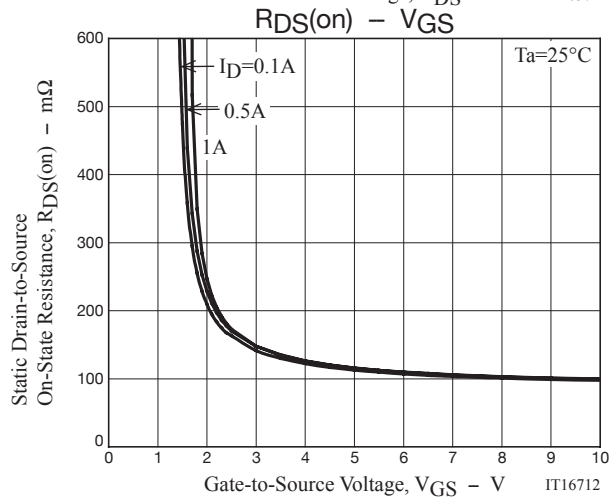
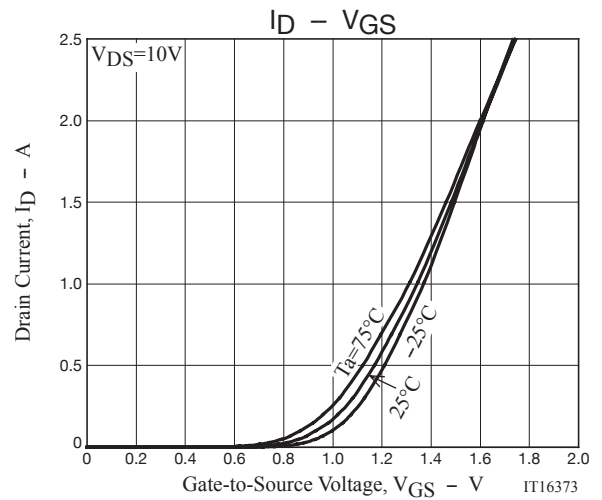
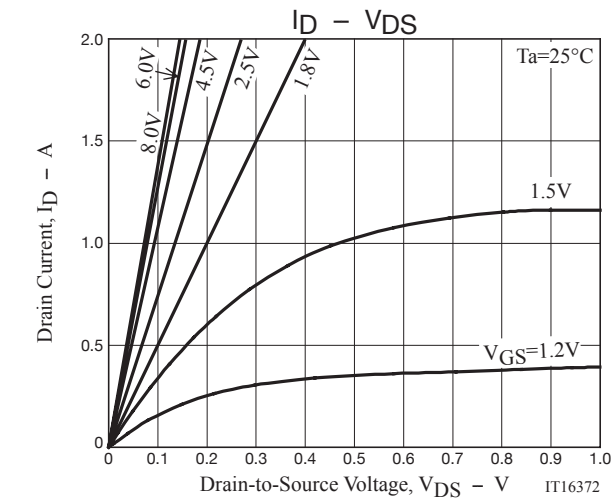


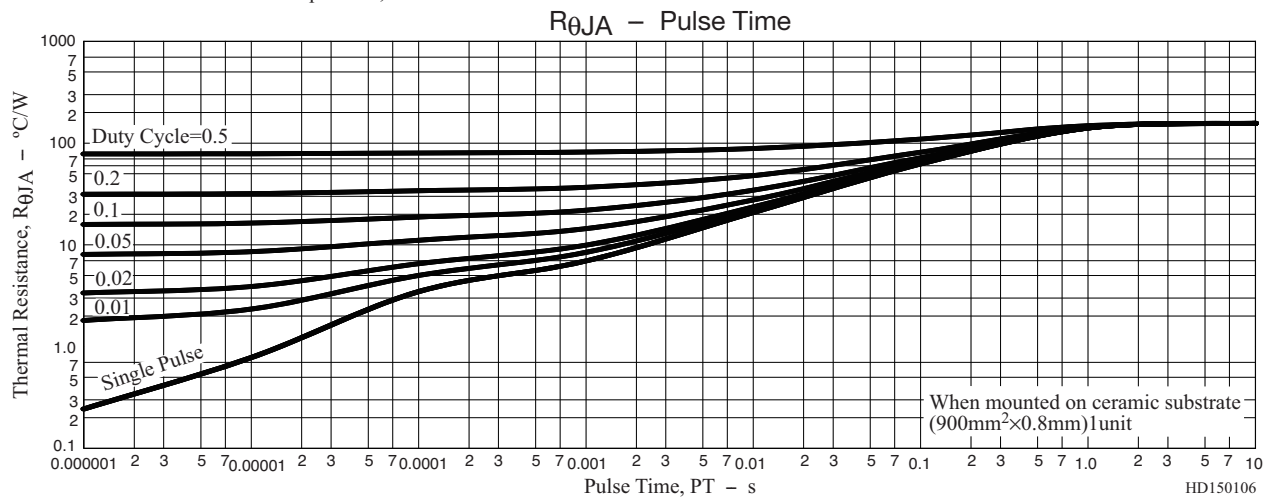
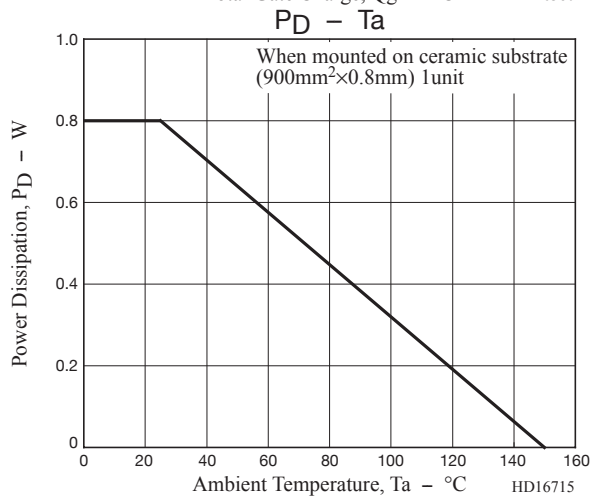
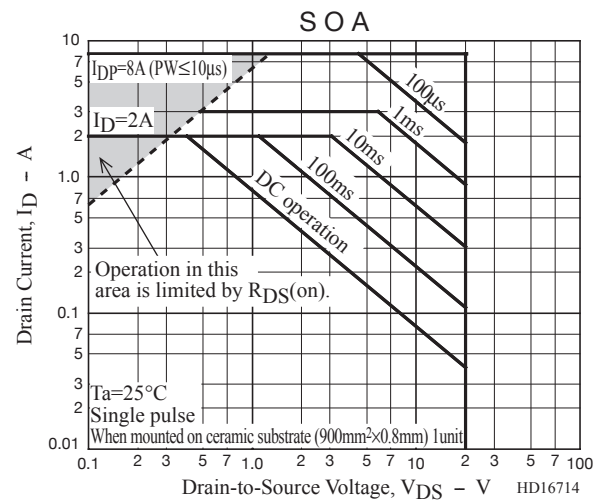
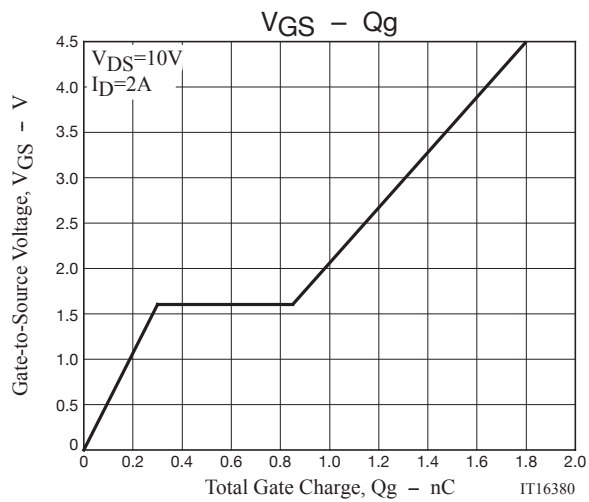
Electrical Characteristics at $T_a=25^{\circ}\text{C}$

Parameter	Symbol	Conditions	Value			Unit
			min	typ	max	
Drain-to-Source Breakdown Voltage	$V_{(BR)DSS}$	$I_D=1\text{mA}$, $V_{GS}=0\text{V}$	20			V
Zero-Gate Voltage Drain Current	I_{DSS}	$V_{DS}=20\text{V}$, $V_{GS}=0\text{V}$			1	μA
Gate-to-Source Leakage Current	I_{GSS}	$V_{GS}=\pm 8\text{V}$, $V_{DS}=0\text{V}$			± 10	μA
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS}=10\text{V}$, $I_D=1\text{mA}$	0.4		1.3	V
Forward Transconductance	g_{FS}	$V_{DS}=10\text{V}$, $I_D=1\text{A}$		1.9		S
Static Drain-to-Source On-State Resistance	$R_{DS(on)1}$	$I_D=1.0\text{A}$, $V_{GS}=4.5\text{V}$		120	160	$\text{m}\Omega$
	$R_{DS(on)2}$	$I_D=0.5\text{A}$, $V_{GS}=2.5\text{V}$		170	240	$\text{m}\Omega$
	$R_{DS(on)3}$	$I_D=0.1\text{A}$, $V_{GS}=1.8\text{V}$		255	380	$\text{m}\Omega$
Input Capacitance	C_{iss}	$V_{DS}=10\text{V}$, $f=1\text{MHz}$		128		pF
Output Capacitance	C_{oss}			28		pF
Reverse Transfer Capacitance	C_{rss}			21		pF
Turn-ON Delay Time	$t_{d(on)}$	See specified Test Circuit.		5.1		ns
Rise Time	t_r			11		ns
Turn-OFF Delay Time	$t_{d(off)}$			14.5		ns
Fall Time	t_f			12		ns
Total Gate Charge	Q_g	$V_{DS}=10\text{V}$, $V_{GS}=4.5\text{V}$, $I_D=2\text{A}$		1.8		nC
Gate-to-Source Charge	Q_{gs}			0.3		nC
Gate-to-Drain "Miller" Charge	Q_{gd}			0.55		nC
Forward Diode Voltage	V_{SD}	$I_S=2\text{A}$, $V_{GS}=0\text{V}$		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

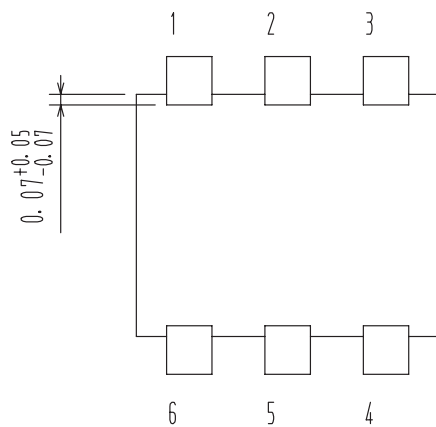
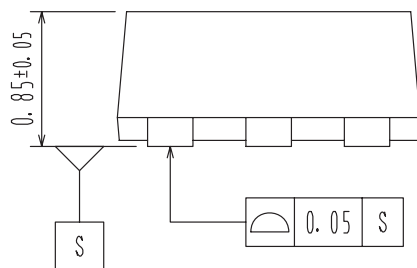
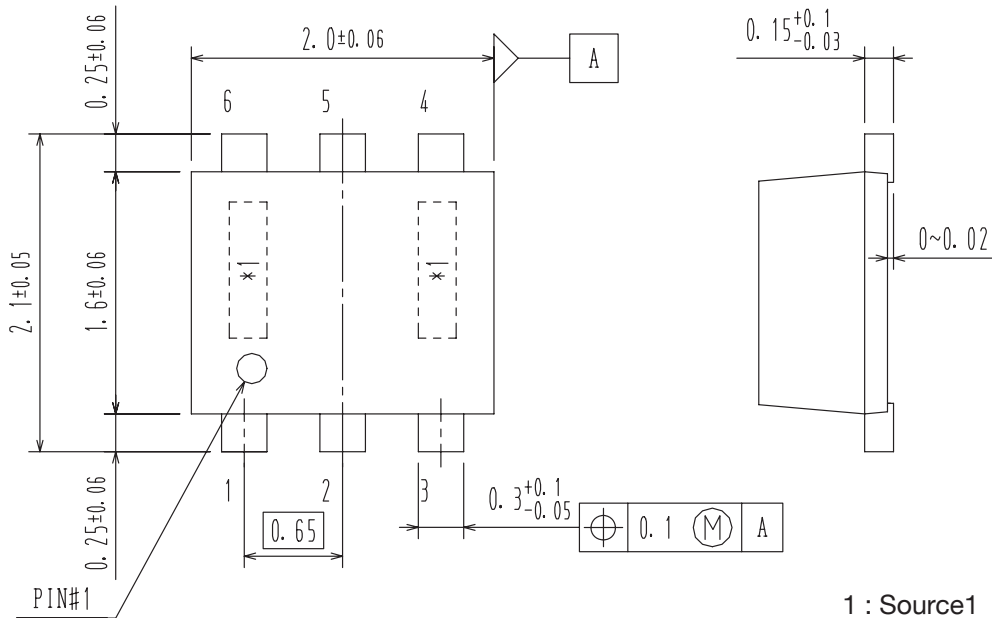
unit : mm

MCH6662-TL-H, MCH6662-TL-W

SC-88FL / MCPH6

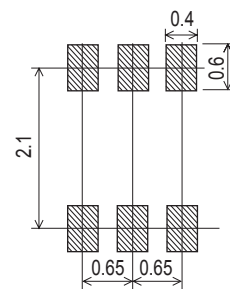
CASE 419AS

ISSUE O



*1: Lot indication

Recommended Soldering Footprint



ORDERING INFORMATION

Device	Package	Shipping	memo
MCH6662-TL-H	MCPH6	3,000pcs./reel	Pb-Free and Halogen Free
MCH6662-TL-W			

Note on usage : Since the MCH6662 is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.

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