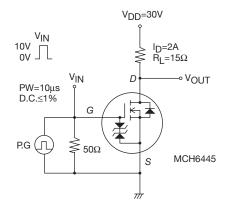
Electrical Characteristics at Ta=25°C

Devemeter	Symbol	O an allitic ma	Ratings			1.1
Parameter		Conditions	min	typ	max	Unit
Drain-to-Source Breakdown Voltage	V(BR)DSS	ID=1mA, VGS=0V	60			V
Zero-Gate Voltage Drain Current	IDSS	V _{DS} =60V, V _{GS} =0V		1	μA	
Gate-to-Source Leakage Current	IGSS	V _{GS} =±16V, V _{DS} =0V		±10	μA	
Cutoff Voltage	V _{GS} (off)	V _{DS} =10V, I _D =1mA	/, ID=1mA 1.2		2.6	V
Forward Transfer Admittance	yfs	V _{DS} =10V, I _D =2A		3		S
Static Drain-to-Source On-State Resistance	R _{DS} (on)1	ID=2A, VGS=10V		60	78	mΩ
	R _{DS} (on)2	ID=1A, VGS=4.5V		74	104	mΩ
	R _{DS} (on)3	ID=1A, VGS=4V		81	114	mΩ
Input Capacitance	Ciss			505		pF
Output Capacitance	Coss	VDS=20V, f=1MHz		57		pF
Reverse Transfer Capacitance	Crss			37		pF
Turn-ON Delay Time	t _d (on)			7.3		ns
Rise Time	tr			9.8		ns
Turn-OFF Delay Time	td(off)	See specified Test Circuit.		40		ns
Fall Time	tf			24		ns
Total Gate Charge	Qg			10		nC
Gate-to-Source Charge	Qgs	V _{DS} =30V, V _{GS} =10V, I _D =4A		1.6		nC
Gate-to-Drain "Miller" Charge	Qgd	1		2.1		nC
Diode Forward Voltage	V _{SD}	IS=4A, VGS=0V		0.82	1.2	V

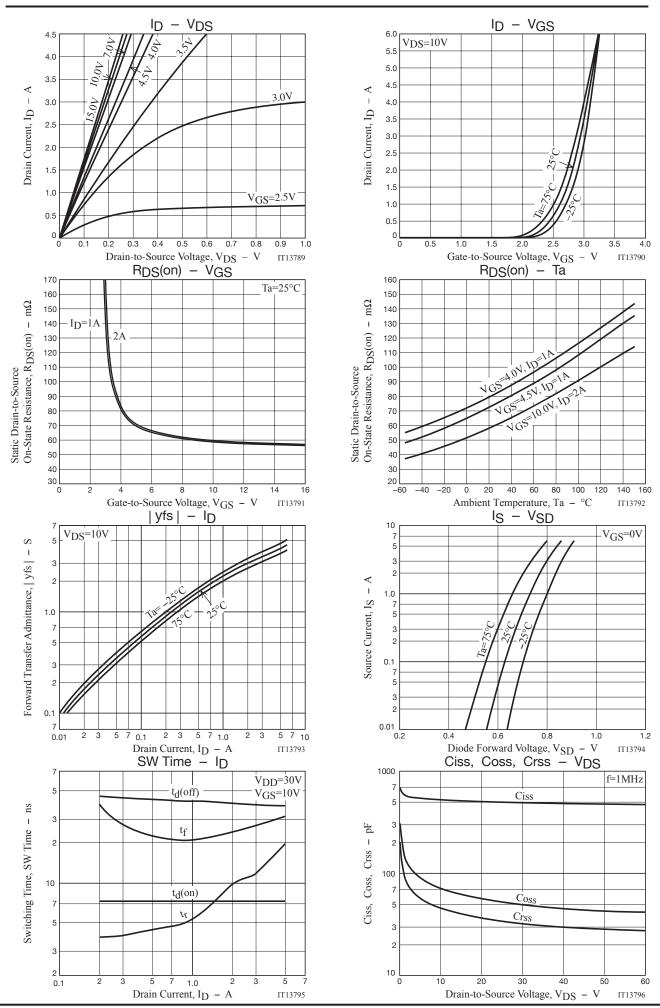
Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

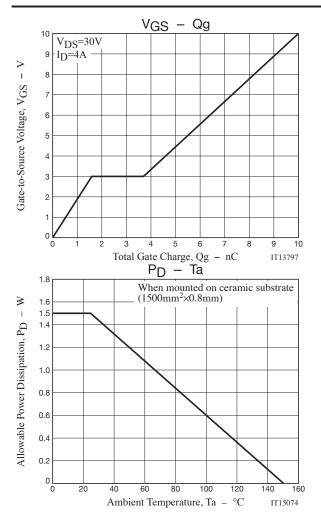
Switching Time Test Circuit

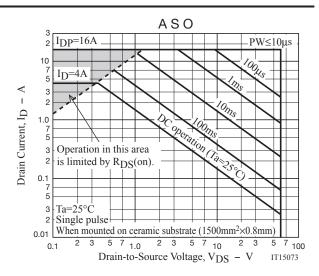


Ordering Information

Device	Package	Shipping	memo	
MCH6445-TL-E	MCDUG	2.000705./rost	Pb-Free	
MCH6445-TL-W	MCPH6	3,000pcs./reel	Pb-Free and Halogen Free	

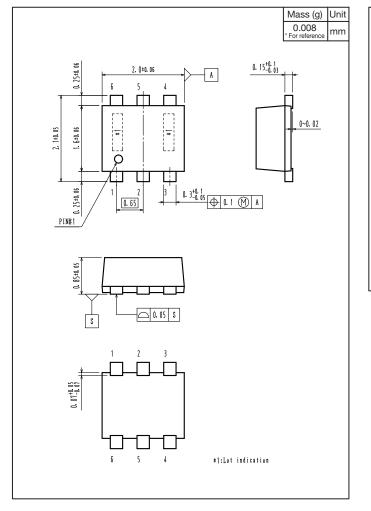




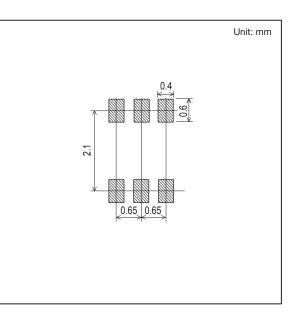


Outline Drawing

MCH6445-TL-E, MCH6445-TL-W



Land Pattern Example



Note on usage : Since the MCH6445 is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.

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