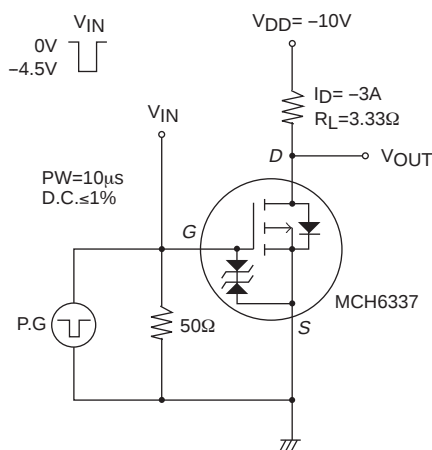


MCH6337

Electrical Characteristics at Ta=25°C

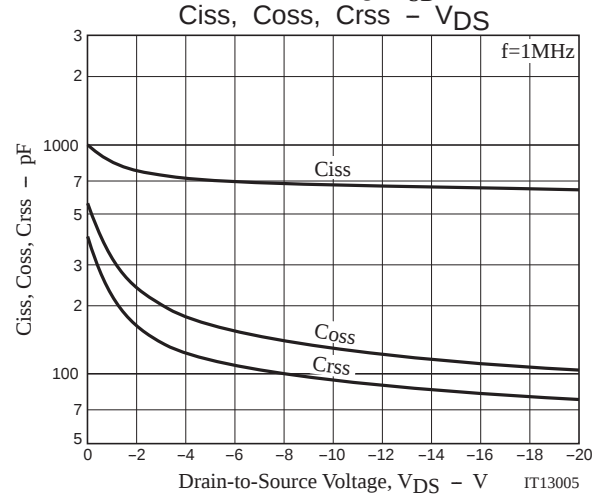
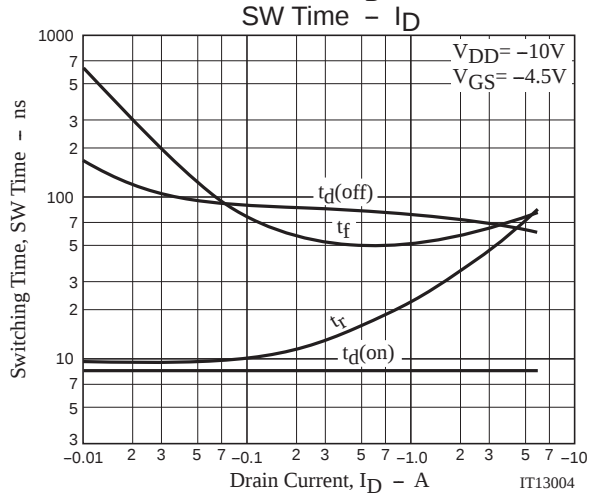
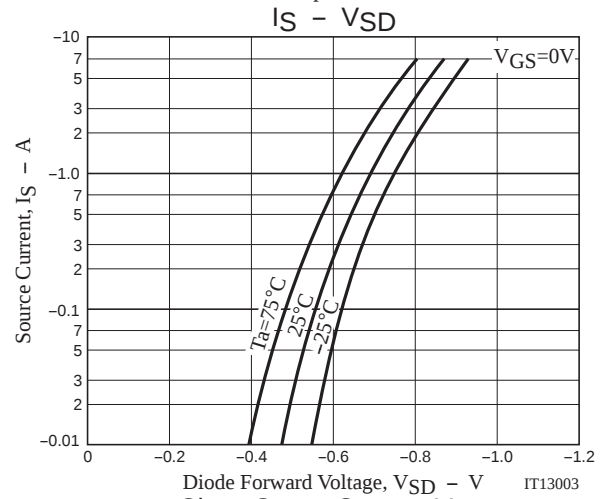
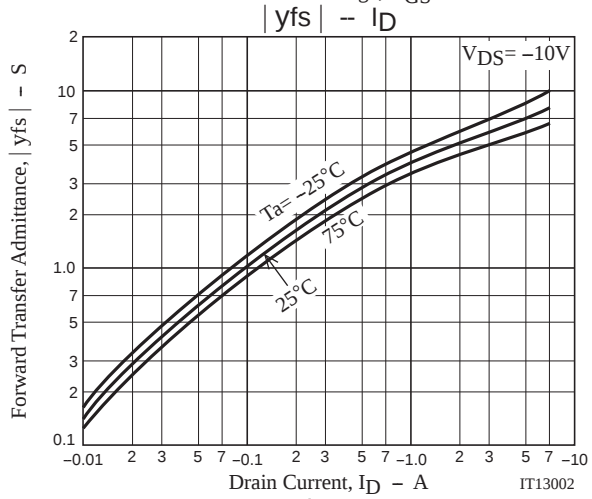
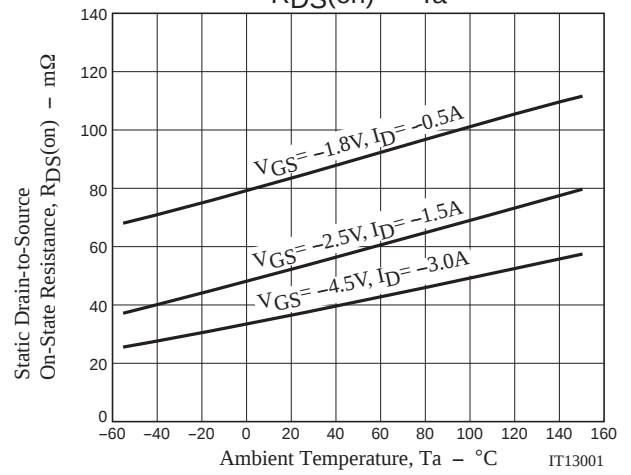
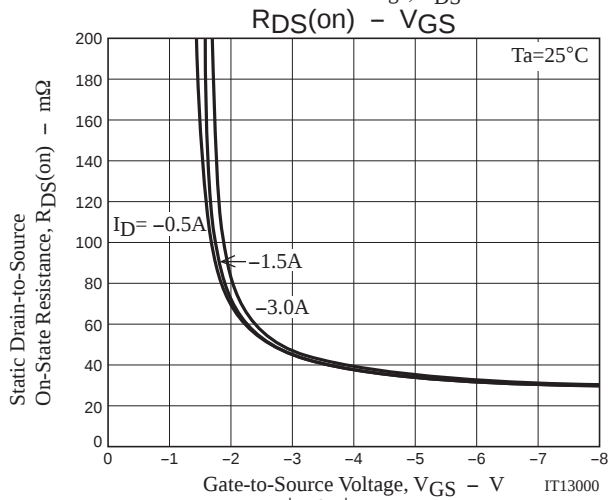
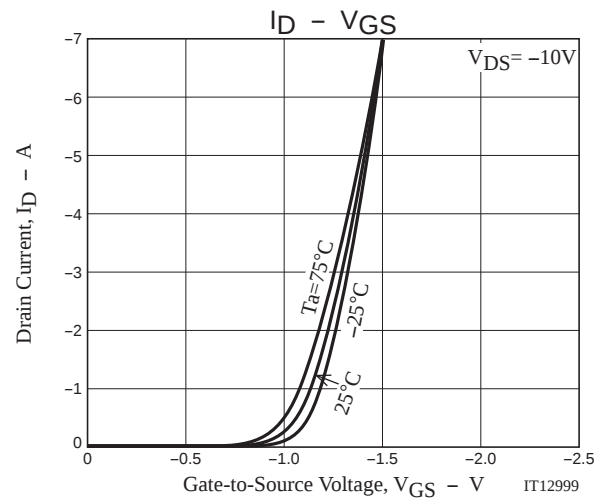
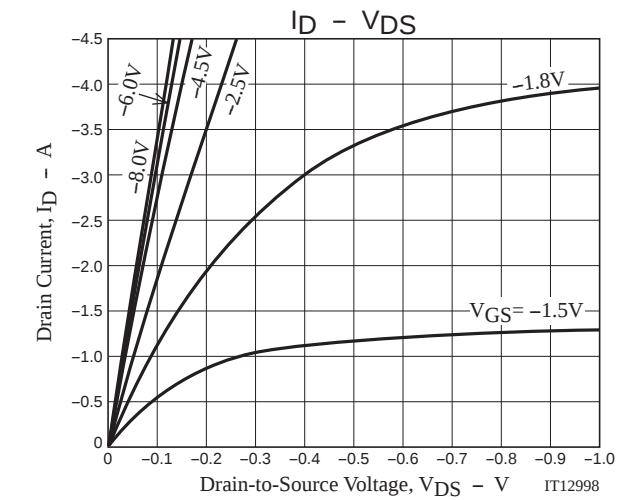
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Drain-to-Source Breakdown Voltage	$V_{(BR)DSS}$	$I_D=-1mA, V_{GS}=0V$	-20			V
Zero-Gate Voltage Drain Current	I_{DSS}	$V_{DS}=-20V, V_{GS}=0V$			-1	μA
Gate-to-Source Leakage Current	I_{GSS}	$V_{GS}=\pm 8V, V_{DS}=0V$			± 10	μA
Cutoff Voltage	$V_{GS(off)}$	$V_{DS}=-10V, I_D=-1mA$	-0.4		-1.3	V
Forward Transfer Admittance	$ y_{fs} $	$V_{DS}=-10V, I_D=-3A$	3.5	5.9		S
Static Drain-to-Source On-State Resistance	$R_{DS(on)1}$	$I_D=-3A, V_{GS}=-4.5V$		37	49	m Ω
	$R_{DS(on)2}$	$I_D=-1.5A, V_{GS}=-2.5V$		53	75	m Ω
	$R_{DS(on)3}$	$I_D=-0.5A, V_{GS}=-1.8V$		85	130	m Ω
Input Capacitance	C_{iss}	$V_{DS}=-10V, f=1MHz$		670		pF
Output Capacitance	C_{oss}			130		pF
Reverse Transfer Capacitance	C_{rss}			94		pF
Turn-ON Delay Time	$t_d(on)$	See specified Test Circuit.		8.4		ns
Rise Time	t_r			45		ns
Turn-OFF Delay Time	$t_d(off)$			69		ns
Fall Time	t_f			63		ns
Total Gate Charge	Q_g	$V_{DS}=-10V, V_{GS}=-4.5V, I_D=-4.5A$		7.3		nC
Gate-to-Source Charge	Q_{gs}			1.3		nC
Gate-to-Drain "Miller" Charge	Q_{gd}			2.1		nC
Diode Forward Voltage	V_{SD}	$I_S=-4.5A, V_{GS}=0V$		-0.82	-1.2	V

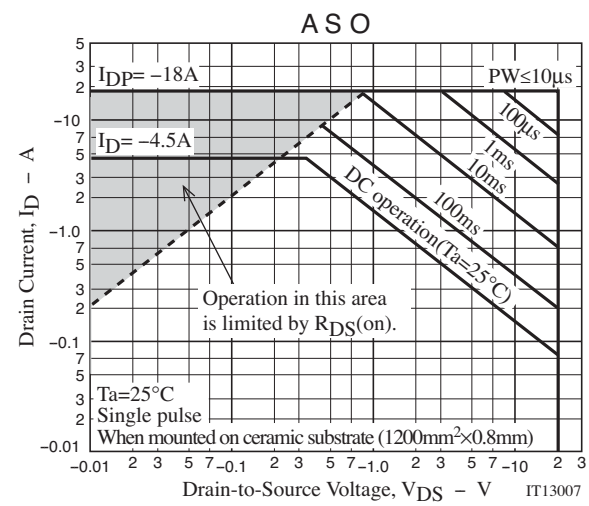
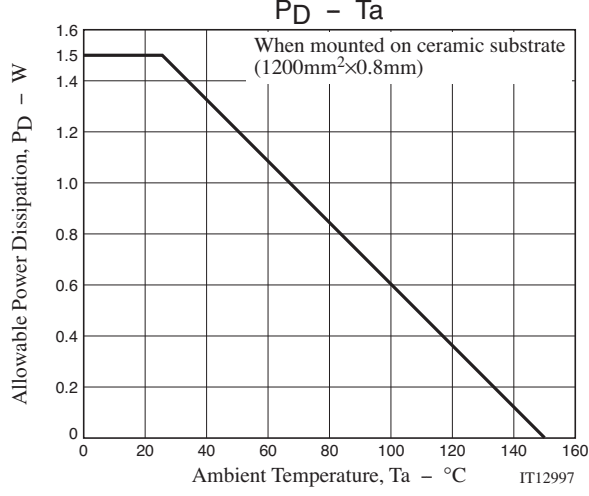
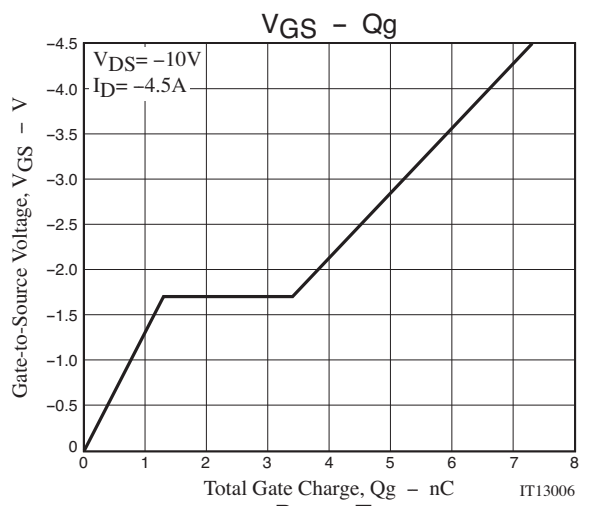
Switching Time Test Circuit



Ordering Information

Device	Package	Shipping	memo
MCH6337-TL-E	MCPH6	3,000pcs./reel	Pb Free
MCH6337-TL-H	MCPH6	3,000pcs./reel	Pb Free and Halogen Free





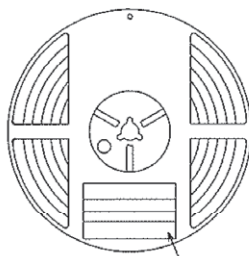
Taping Specification

MCH6337-TL-E, MCH6337-TL-H

1. Packing Format

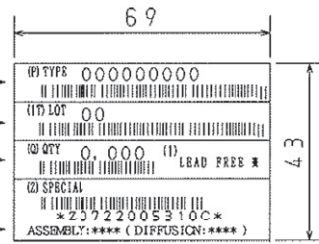
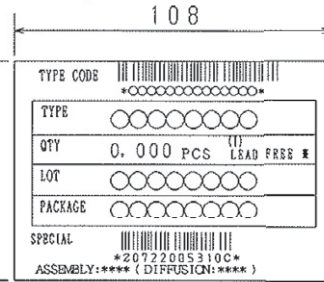
Package Name	Carrier Tape Type	Maximum Number of devices contained (pcs)			Packing format	
		Reel	Inner box	Outer box	Inner BOX (C-1)	Outer BOX (A-7)
MCPH6	MCP4	3,000	15,000	90,000	5 reels contained Dimensions:mm (external) 183×72×185	6 inner boxes contained Dimensions:mm (external) 440×195×210

Packing method



Reel label

Type No.
LOT No.
Quantity
Origin

Reel label, Inner box label
(unit:mm)Outer box label
It is a label at the time of factory shipments.
The form of a label may change in physical
distribution process.

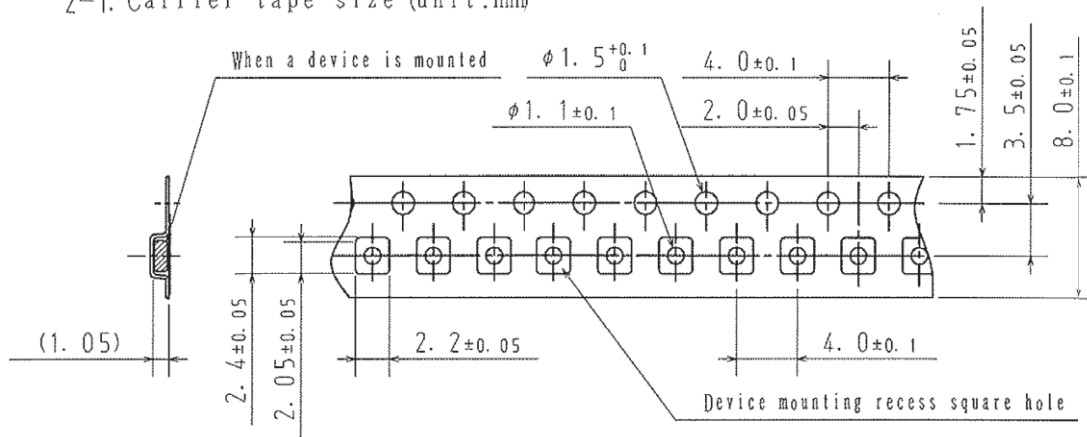
NOTE (1)

The LEAD FREE * description shows that the surface treatment of the terminal is lead free.

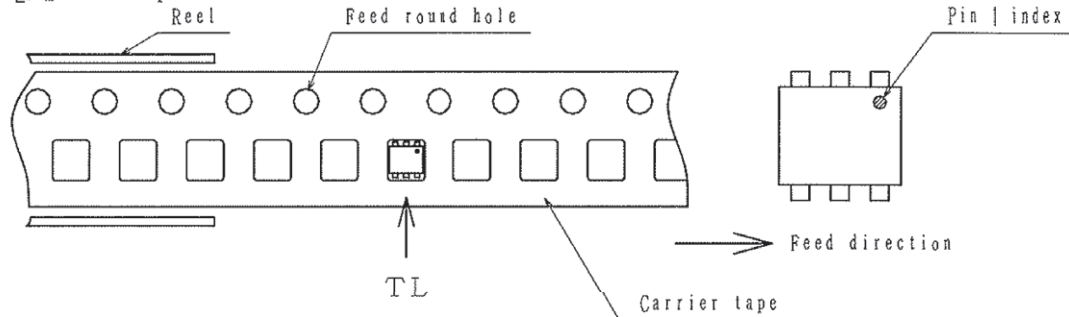
Label	JEITA Phase
LEAD FREE 3	JEITA Phase 3A
LEAD FREE 4	JEITA Phase 3

2. Taping configuration

2-1. Carrier tape size (unit:mm)



2-2. Device placement direction

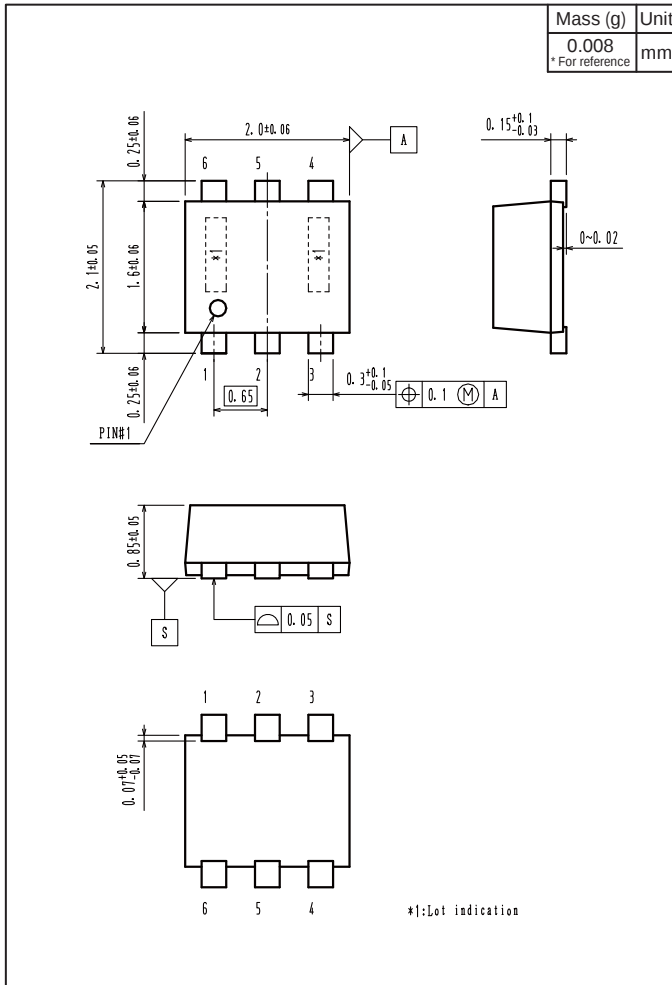


Those with pin 1 index on the feed hole side.....TL

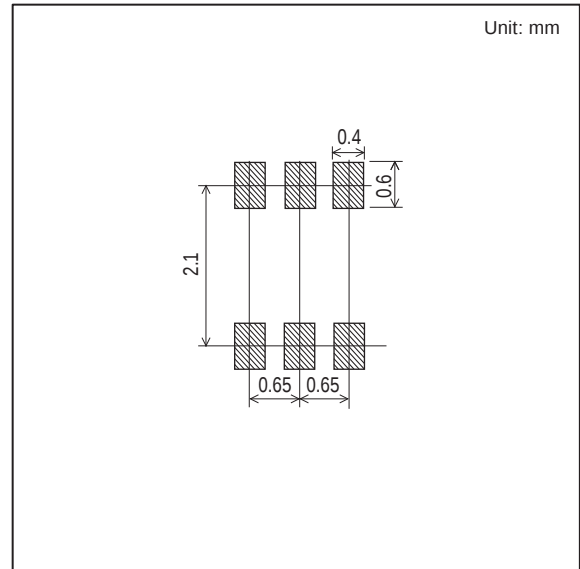
MCH6337

Outline Drawing

MCH6337-TL-E, MCH6337-TL-H



Land Pattern Example



Note on usage : Since the MCH6337 is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.

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