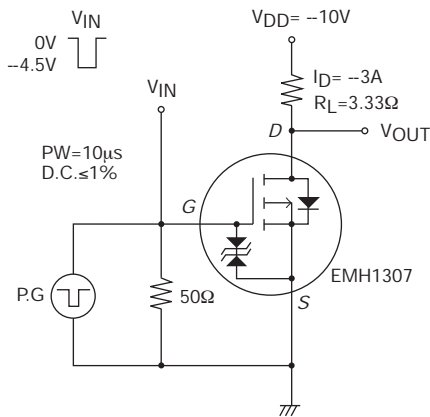


EMH1307

Electrical Characteristics at Ta=25°C

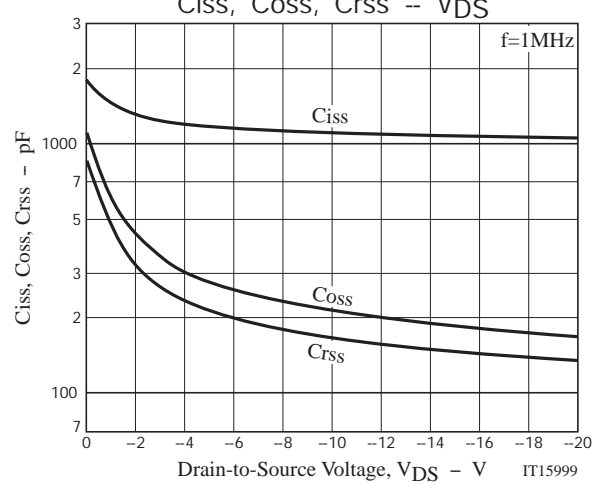
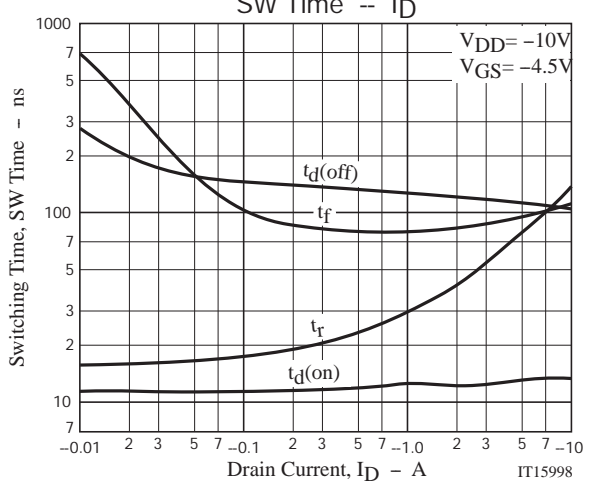
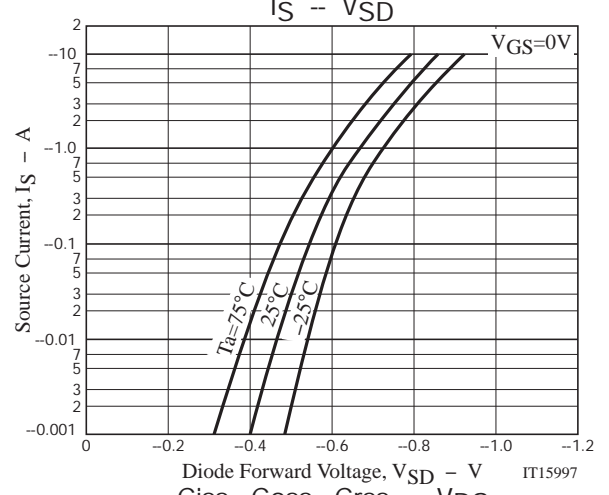
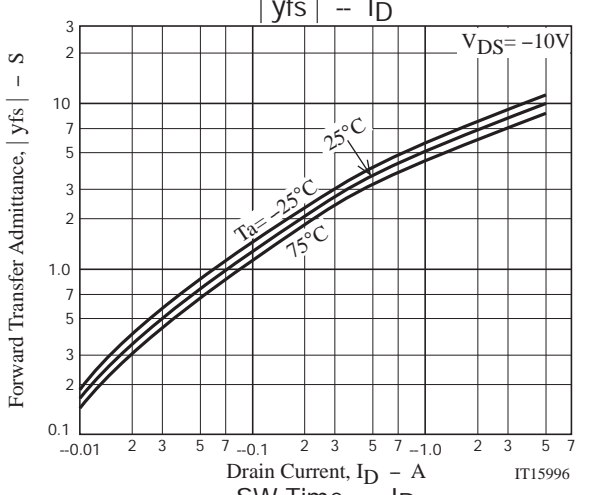
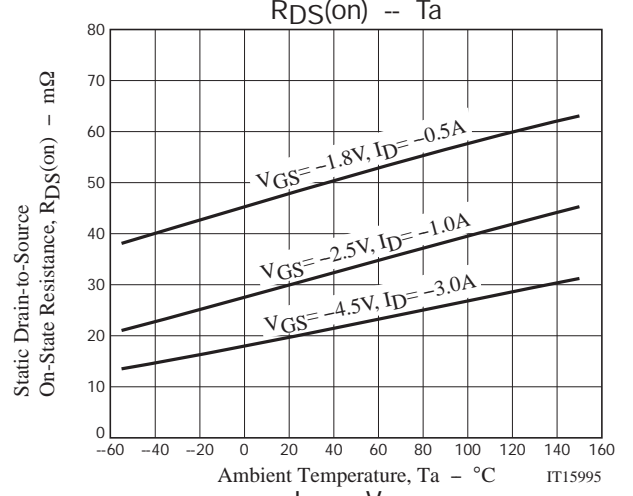
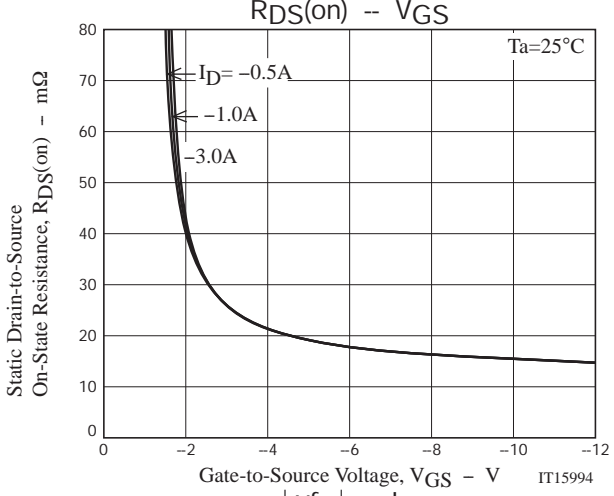
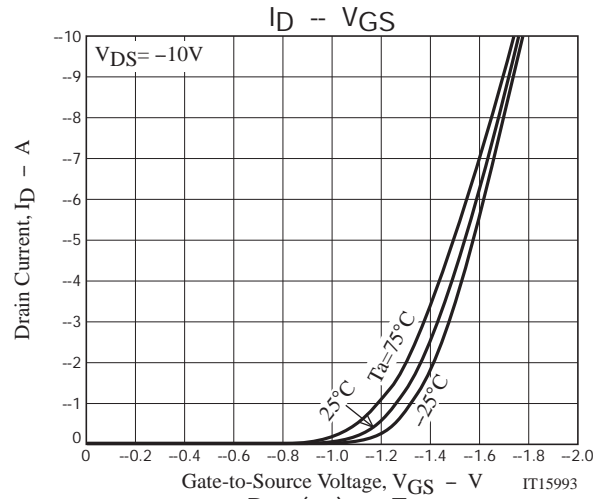
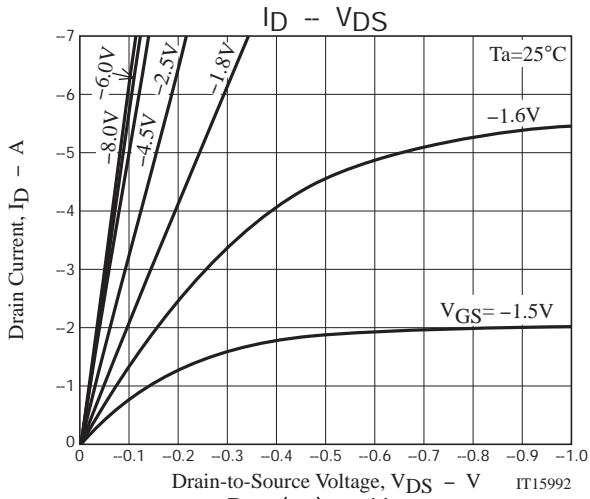
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Drain-to-Source Breakdown Voltage	V(BR)DSS	I _D =-1mA, V _{GS} =0V	-20			V
Zero-Gate Voltage Drain Current	I _{DSS}	V _{DS} =-20V, V _{GS} =0V			-1	μA
Gate-to-Source Leakage Current	I _{GSS}	V _{GS} =±8V, V _{DS} =0V			±10	μA
Cutoff Voltage	V _{GS(off)}	V _{DS} =-10V, I _D =-1mA	-0.4		-1.3	V
Forward Transfer Admittance	y _{fs}	V _{DS} =-10V, I _D =-3A		8.2		S
Static Drain-to-Source On-State Resistance	R _{DS(on)1}	I _D =-3A, V _{GS} =-4.5V		20	26	mΩ
	R _{DS(on)2}	I _D =-1.5A, V _{GS} =-2.5V		31	44	mΩ
	R _{DS(on)3}	I _D =-0.5A, V _{GS} =-1.8V		49	78	mΩ
Input Capacitance	C _{iss}	V _{DS} =-10V, f=1MHz		1100		pF
Output Capacitance	C _{oss}			210		pF
Reverse Transfer Capacitance	C _{rss}			160		pF
Turn-ON Delay Time	t _{d(on)}		See specified Test Circuit.		12.8	
Rise Time	t _r			55		ns
Turn-OFF Delay Time	t _{d(off)}			120		ns
Fall Time	t _f			88		ns
Total Gate Charge	Q _g	V _{DS} =-10V, V _{GS} =-4.5V, I _D =-6.5A			13	
Gate-to-Source Charge	Q _{gs}			1.9		nC
Gate-to-Drain "Miller" Charge	Q _{gd}			3.7		nC
Diode Forward Voltage	V _{SD}	I _S =-6.5A, V _{GS} =0V		-0.8	-1.2	V

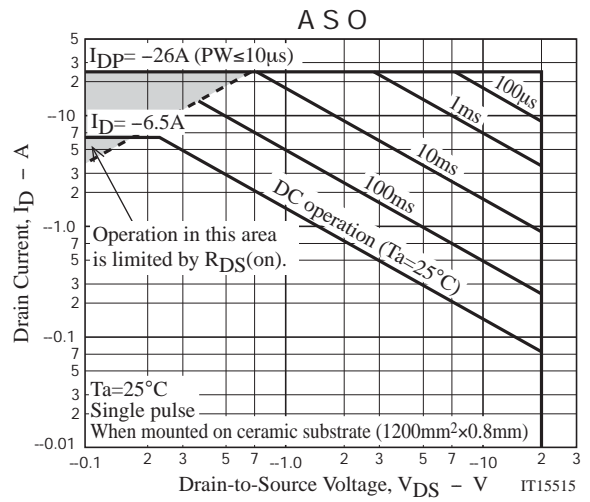
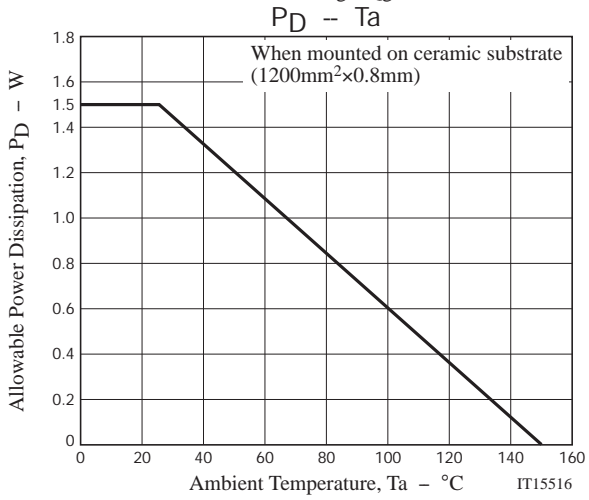
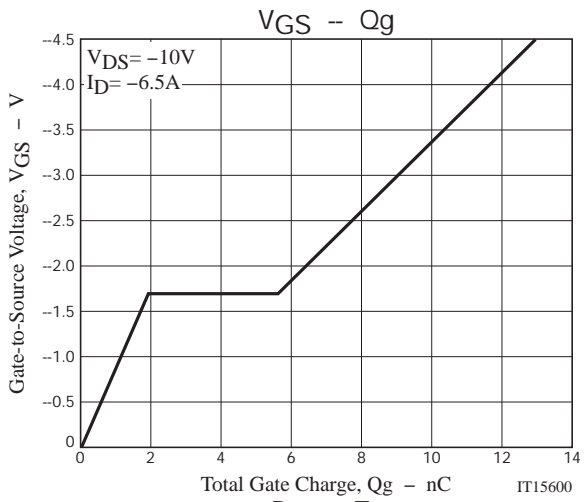
Switching Time Test Circuit



Ordering Information

Device	Package	Shipping	memo
EMH1307-TL-H	EMH8	3,000pcs./reel	Pb Free and Halogen Free





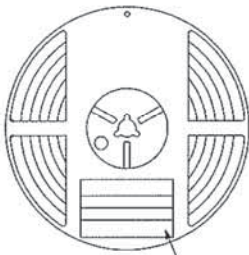
Embossed Taping Specification

EMH1307-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)
EMH8	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

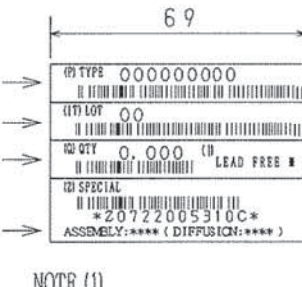
Packing method



Reel label

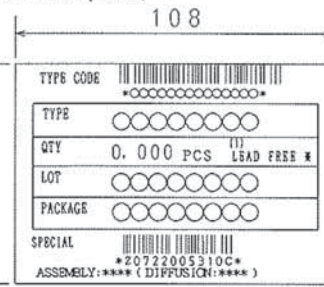
Type No. →
LOT No. →
Quantity →
Origin →

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.



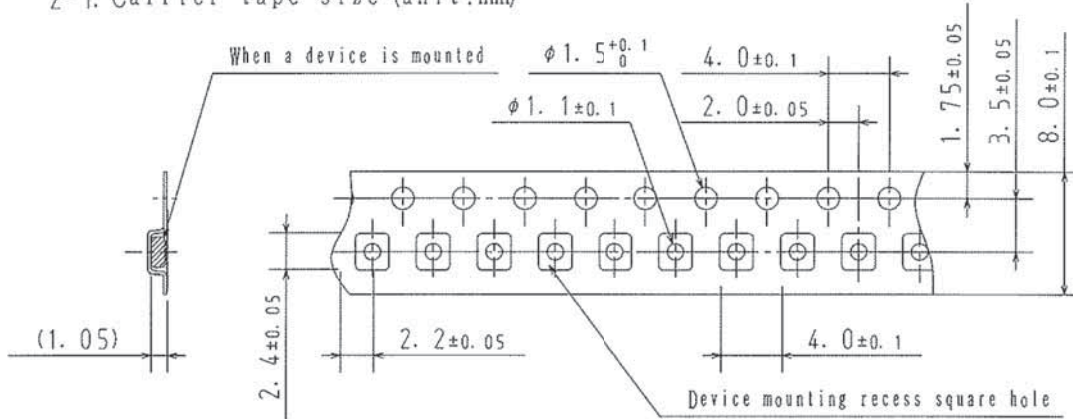
NOTE (1)

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

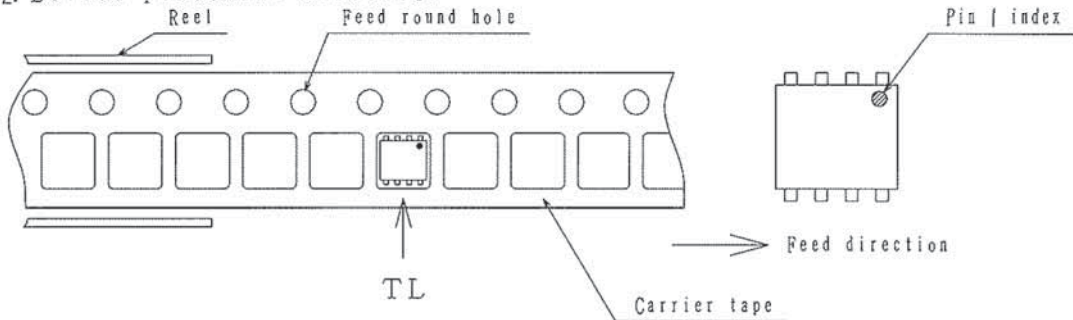
Label	JEITA Phase
LEAD FREE 3	JEITA Phase 3A
LEAD FREE 4	JEITA Phase 3

2. Taping configuration

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



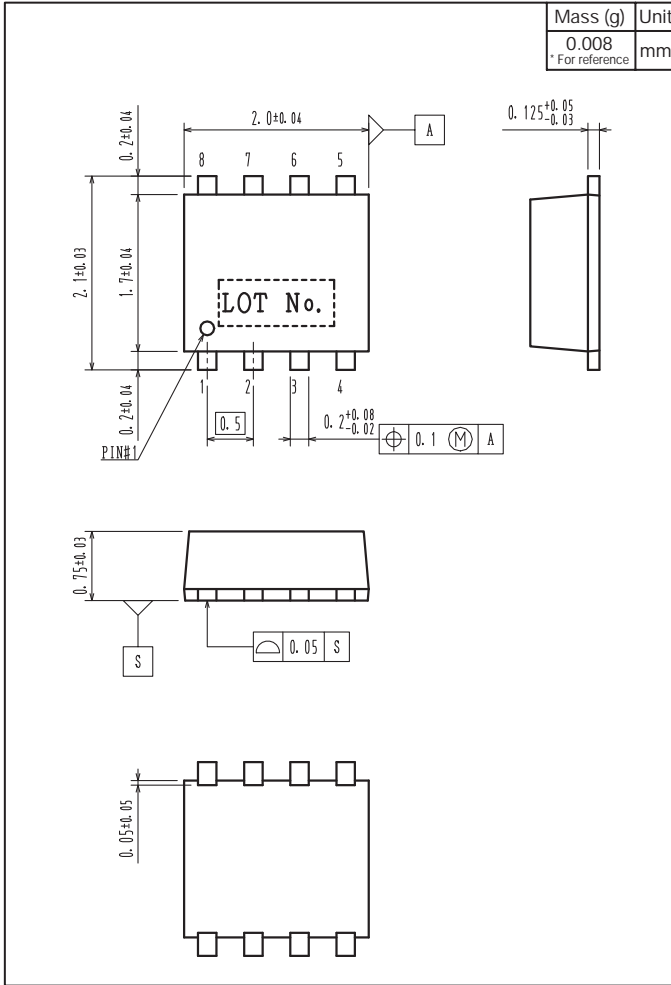
2-2. Device placement direction



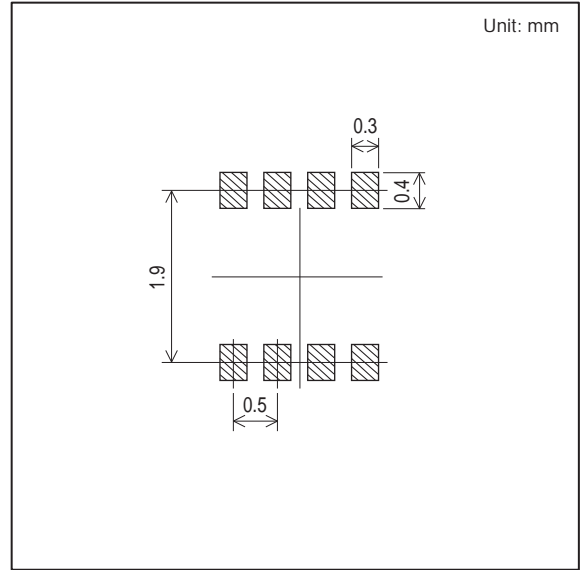
Those with pin | index on the feed hole side.....TL

EMH1307

Outline Drawing EMH1307-TL-H



Land Pattern Example



Note on usage : Since the EMH1307 is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.

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