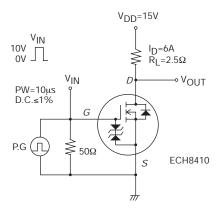
Electrical Characteristics at Ta=25°C

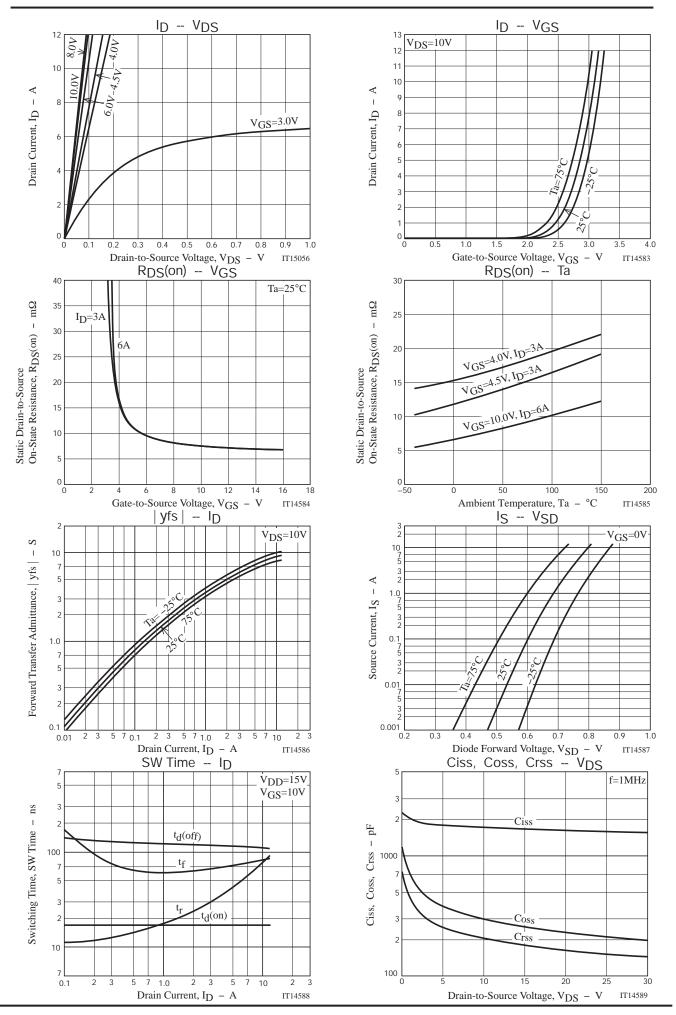
Parameter	Symbol	Conditions	Ratings			Unit
Parameter		Conditions	min	typ	max	Unit
Drain-to-Source Breakdown Voltage	V(BR)DSS	ID=1mA, VGS=0V	30			V
Zero-Gate Voltage Drain Current	IDSS	V _{DS} =30V, V _{GS} =0V			1	μΑ
Gate-to-Source Leakage Current	IGSS	V _{GS} =±16V, V _{DS} =0V			±10	μΑ
Cutoff Voltage	V _{GS} (off)	V _{DS} =10V, I _D =1mA	1.2		2.6	٧
Forward Transfer Admittance	yfs	V _{DS} =10V, I _D =6A		7.5		S
	R _{DS} (on)1	I _D =6A, V _{GS} =10V		7.5	10	mΩ
Static Drain-to-Source On-State Resistance	R _{DS} (on)2	I _D =3A, V _{GS} =4.5V		13	18.2	mΩ
	R _{DS} (on)3	I _D =3A, V _{GS} =4V		15.5	22	mΩ
Input Capacitance	Ciss			1700		pF
Output Capacitance	Coss	V _{DS} =10V, f=1MHz		300		pF
Reverse Transfer Capacitance	Crss			200		pF
Turn-ON Delay Time	t _d (on)			17		ns
Rise Time	t _r	Constitution of the state of th		50		ns
Turn-OFF Delay Time	t _d (off)	See specified Test Circuit.		110		ns
Fall Time	tf			72		ns
Total Gate Charge	Qg			31		nC
Gate-to-Source Charge	Qgs	V _{DS} =15V, V _{GS} =10V, I _D =12A		5.5		nC
Gate-to-Drain "Miller" Charge	Qgd	_		5.5		nC
Diode Forward Voltage	V _{SD}	I _S =12A, V _{GS} =0V		0.8	1.2	V

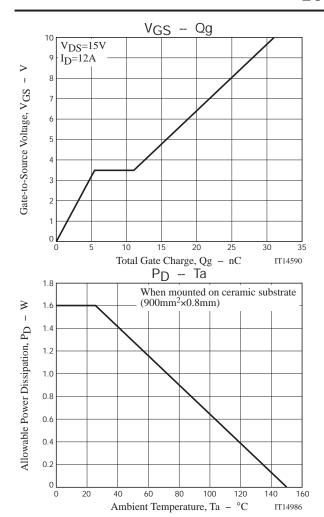
Switching Time Test Circuit

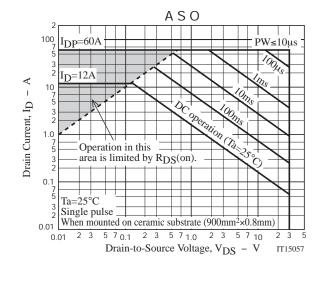


Ordering Information

•					
Device	Package	Shipping	memo		
ECH8410-TL-H	ECH8	3,000pcs./reel	Pb Free and Halogen Free		





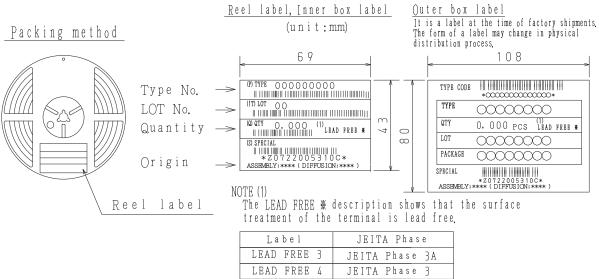


Embossed Taping Specification

ECH8410-TL-H

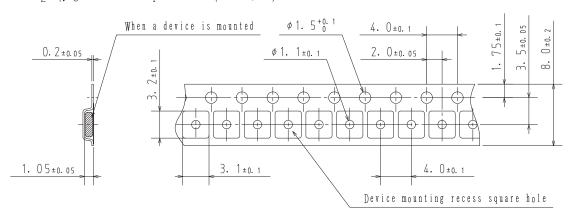
1. Packing Format

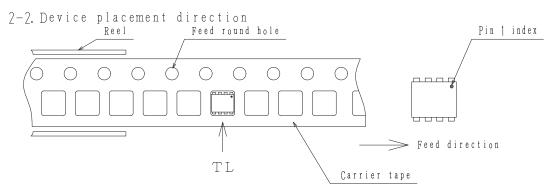
Package Name	Carrier Tape	Maximum Number of devices contained (pcs)			Packing format		
	Туре	Reel	Inner box	Outer box	Inner $BOX(C-1)$	Outer BOX (A-7)	
ECH8	СРН6	3, 000	15, 000	90,000	5 reels contained	6 inner boxes contained	
					Dimensions:mm (external)	Dimensions:mm (external)	
					183×72×185	440×195×210	



2. Taping configuration

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

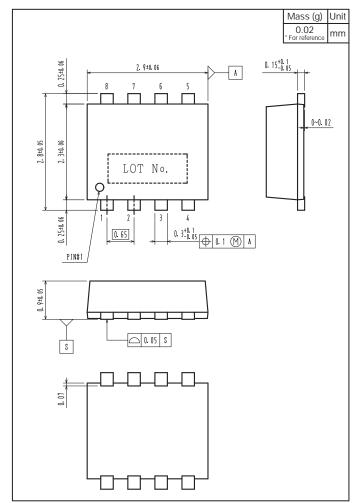




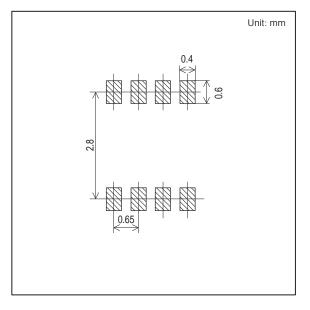
Those with pin 1 index on the feed hole side · · · · · TL

Outline Drawing

ECH8410-TL-H



Land Pattern Example



Note on usage: Since the ECH8410 is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.

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