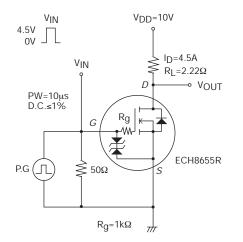
Electrical Characteristics at Ta=25°C

Describe			Ratings			
Parameter	Symbol	Conditions	min	typ	max	Unit
Drain-to-Source Breakdown Voltage	V(BR)DSS	ID=1mA, VGS=0V	24			V
Zero-Gate Voltage Drain Current	IDSS	V _{DS} =20V, V _{GS} =0V			1	μΑ
Gate-to-Source Leakage Current	IGSS	V _{GS} =±8V, V _{DS} =0V			±10	μΑ
Cutoff Voltage	V _{GS} (off)	V _{DS} =10V, I _D =1mA	0.5		1.3	V
Forward Transfer Admittance	yfs	V _{DS} =10V, I _D =4.5A	4.8	8		S
Static Drain-to-Source On-State Resistance	R _{DS} (on)1	ID=4.5A, VGS=4.5V	9	13	17	mΩ
	R _{DS} (on)2	ID=4.5A, VGS=4.0V	9	13.5	18	mΩ
	R _{DS} (on)3	ID=4.5A, VGS=3.1V	9.2	15	21	mΩ
	RDS(on)4	ID=2A, VGS=2.5V	10.5	18	25.5	mΩ
Turn-ON Delay Time	t _d (on)			320		ns
Rise Time	tr	Can appaified Test Circuit		1100		ns
Turn-OFF Delay Time	t _d (off)	See specified Test Circuit.		2400		ns
Fall Time	tf			2100		ns
Total Gate Charge	Qg			16.8		nC
Gate-to-Source Charge	Qgs	V _{DS} =10V, V _{GS} =10V, I _D =9A		1.6		nC
Gate-to-Drain "Miller" Charge	Qgd			4.8		nC
Diode Forward Voltage	V _{SD}	IS=9A, VGS=0V		0.8	1.2	V

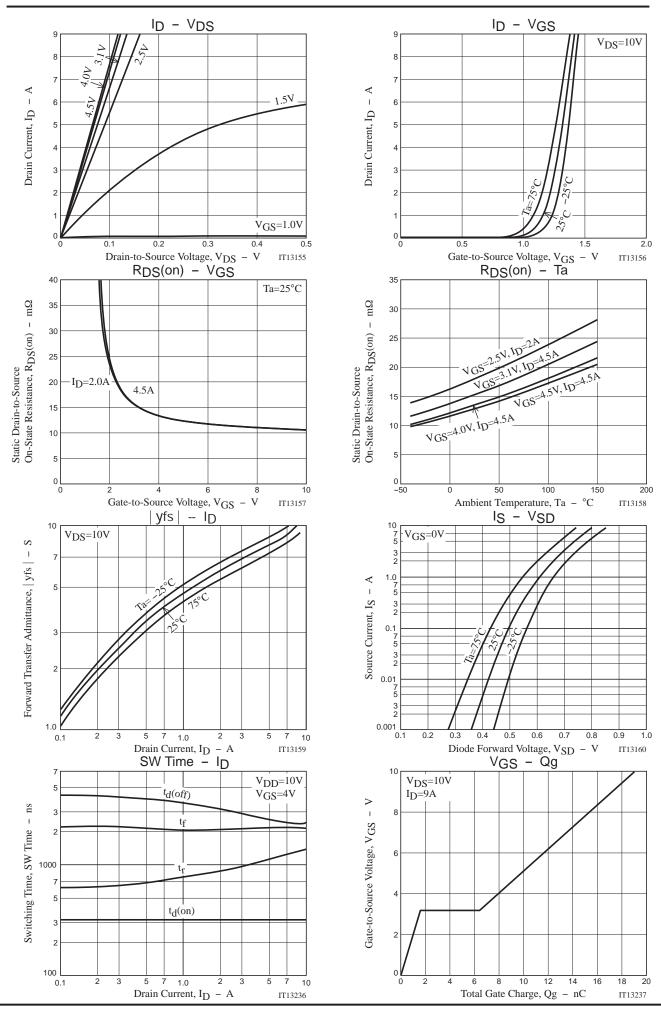
Switching Time Test Circuit

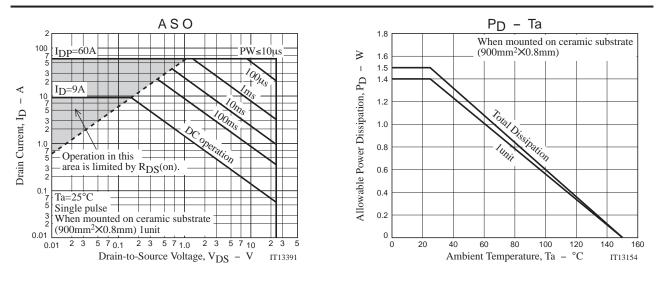


Ordering Information

8				
Device	Device Package		memo	
ECH8655R-TL-H	ECH8	3,000pcs./reel	Pb Free and Halogen Free	

ECH8655R





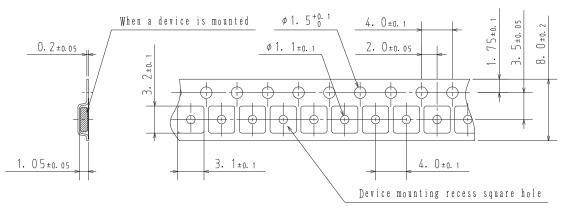
Embossed Taping Specification ECH8655R-TL-H

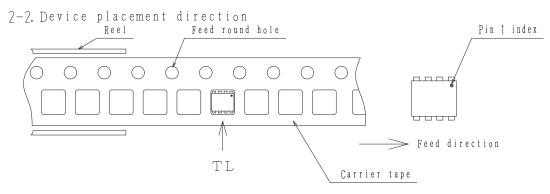
1. Packing Format

Package Name			timum Number of ces contained (pcs)		Packing format		
	Туре	Reel	Inner box	Outer box	Inner BOX (C-1) Outer BOX (A-7)		
ECH8	CPH6	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		
<u>Reel label, Inner box label</u> <u>Outer box label</u> (unit:mm) <u>Packing method</u> <u>(unit:mm)</u> <u>Outer box label</u> <u>It is a label at the time of factory shipments</u> <u>The form of a label may change in physical</u> <u>distribution process</u> .							
	Type LOT Quan Orig	No. tity		TYPE O O O 11 <td>000000 108 000000 ************************************</td>	000000 108 000000 ************************************		
Reel label The LEAD FREE ** description shows that the surface treatment of the terminal is lead free.					of the terminal is lead free.		
				Label LEAD FRI LEAD FRI	CE 3 JEITA Phase 3A		

2. Taping configuration

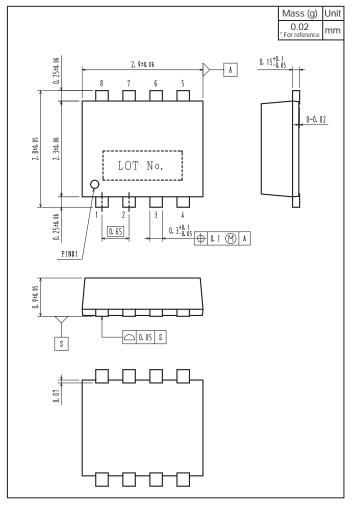
2-1. Carrier tape size (unit:mm)



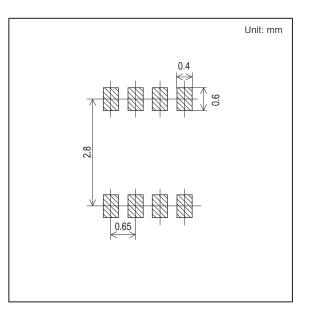


Those with pin 1 index on the feed hole side·····TL

Outline Drawing ECH8655R-TL-H



Land Pattern Example



Note on usage : Since the ECH8655R is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.

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