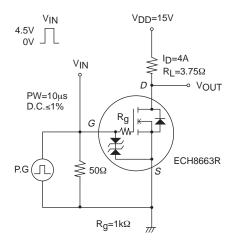
ECH8663R

Electrical Characteristics at Ta=25°C

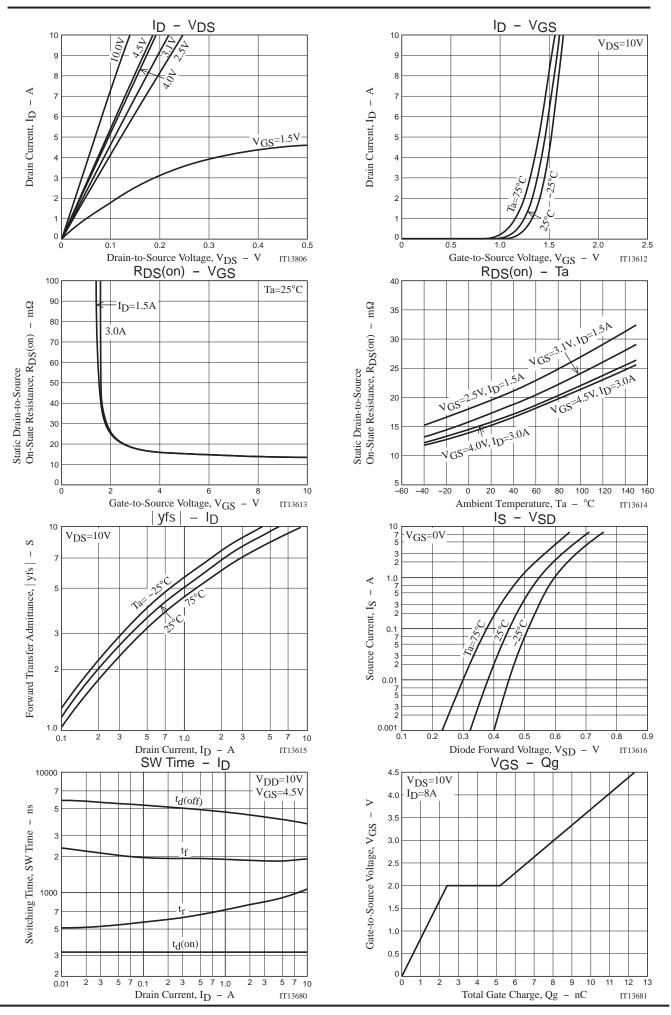
Parameter	Cymphol	Conditions	Ratings			Linit
Parameter	Symbol	Conditions	min	typ	max	Unit
Drain-to-Source Breakdown Voltage	V(BR)DSS	ID=1mA, VGS=0V	30			V
Zero-Gate Voltage Drain Current	IDSS	V _{DS} =30V, V _{GS} =0V			1	μΑ
Gate-to-Source Leakage Current	IGSS	V _{GS} =±8V, V _{DS} =0V			±10	μΑ
Cutoff Voltage	V _{GS} (off)	V _{DS} =10V, I _D =1mA	0.5		1.3	V
Forward Transfer Admittance	yfs	V _{DS} =10V, I _D =4A	5	8.5		S
Static Drain-to-Source On-State Resistance	R _{DS} (on)1	I _D =4A, V _G S=4.5V	10.5	15.5	20.5	mΩ
	R _{DS} (on)2	I _D =4A, V _G S=4.0V	11	16	21	$m\Omega$
	R _{DS} (on)3	I _D =2A, V _{GS} =3.1V	12	17.5	23	mΩ
	RDS(on)4	ID=2A, VGS=2.5V	12	20	28	mΩ
Turn-ON Delay Time	t _d (on)			320		ns
Rise Time	t _r	San appointed Test Circuit		850		ns
Turn-OFF Delay Time	t _d (off)	See specified Test Circuit.		4200		ns
Fall Time	t _f			1800		ns
Total Gate Charge	Qg			12.3		nC
Gate-to-Source Charge	Qgs	V _{DS} =10V, V _{GS} =4.5V, I _D =8A		2.4		nC
Gate-to-Drain "Miller" Charge	Qgd			2.8		nC
Diode Forward Voltage	V _{SD}	I _S =8A, V _{GS} =0V		0.75	1.2	V

Switching Time Test Circuit

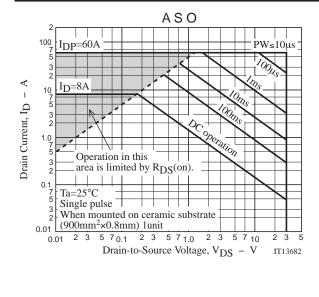


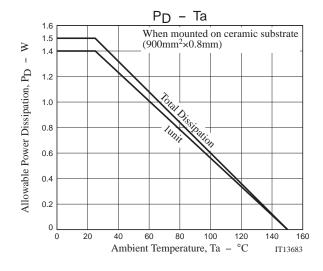
Ordering Information

•				
Device Package		Shipping	memo	
ECH8663R-TL-H	ECH8	3,000pcs./reel	Pb Free and Halogen Free	



ECH8663R



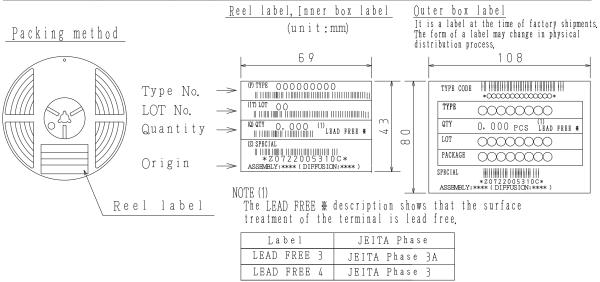


Embossed Taping Specification

ECH8663R-TL-H

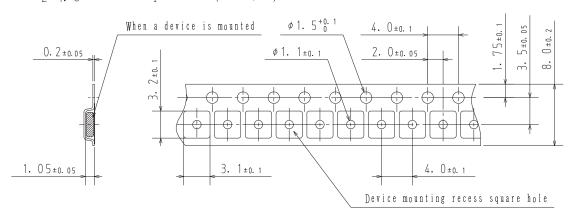
1. Packing Format

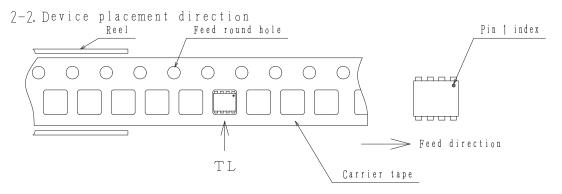
Package Name	Carrier Tape	Maximum Number of devices contained (pcs)			Packing	format
	Туре	Reel	Inner box	Outer box	Inner $BOX(C-1)$	Outer BOX (A-7)
ECH8	СРН6	3, 000	15, 000	90,000	5 reels contained	6 inner boxes contained
					Dimensions:mm (external)	Dimensions:mm (external)
					183×72×185	440×195×210



2. Taping configuration

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





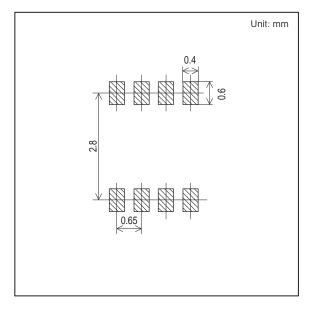
Those with pin 1 index on the feed hole side · · · · · TL

Outline Drawing

ECH8663R-TL-H

Mass (g) Unit 0.02 * For reference mm 0. 15^{+0. 1}_{-0. 05} 0. 25±0.06 2. 9±0.06 0~0.02 2. 8±0. 05 2. 3±0.06 LOT No. 0. 25±0.06 0. 3^{+0. 1} PIN#1 0. 9±0. 05 0.05 \$ \$

Land Pattern Example



Note on usage: Since the ECH8663R is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.

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