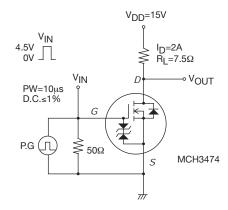
Electrical Characteristics at Ta=25°C

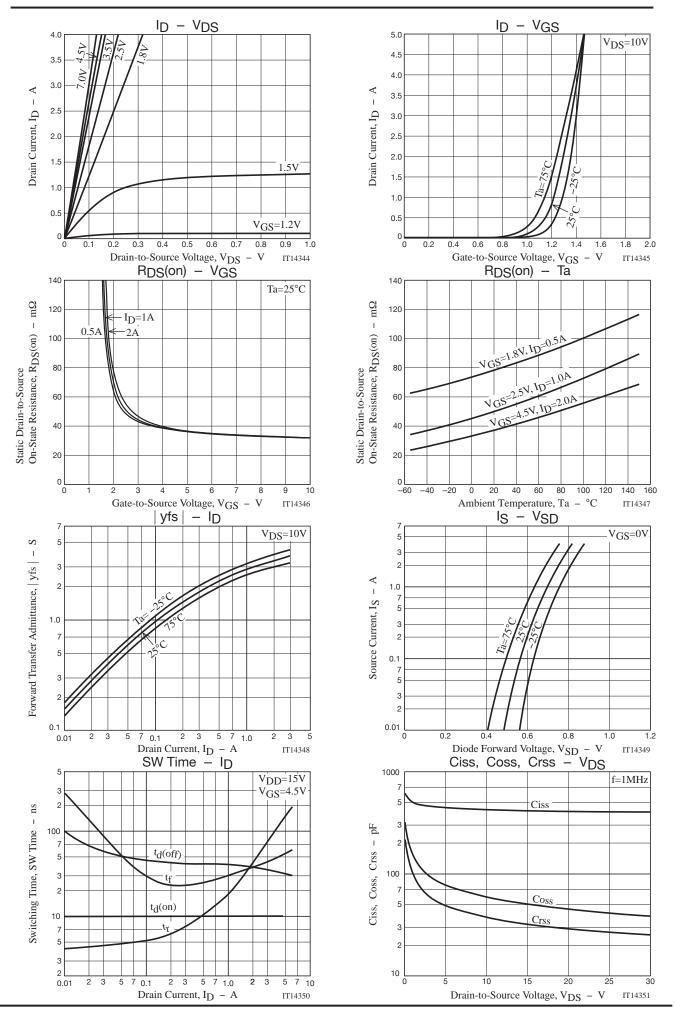
Parameter	Symbol	Conditions	Ratings			Unit
Farameter		Conditions	min	typ	max	Offic
Drain-to-Source Breakdown Voltage	V(BR)DSS	ID=1mA, VGS=0V	30			V
Zero-Gate Voltage Drain Current	IDSS	V _{DS} =30V, V _{GS} =0V			1	μΑ
Gate-to-Source Leakage Current	IGSS	V _{GS} =±8V, V _{DS} =0V			±10	μΑ
Cutoff Voltage	V _{GS} (off)	V _{DS} =10V, I _D =1mA	0.4		1.3	V
Forward Transfer Admittance	yfs	V _{DS} =10V, I _D =2A	2.0	3.4		S
Static Drain-to-Source On-State Resistance	R _{DS} (on)1	ID=2A, VGS=4.5V		38	50	mΩ
	R _{DS} (on)2	I _D =1A, V _G S=2.5V		51	72	mΩ
	R _{DS} (on)3	I _D =0.5A, V _{GS} =1.8V		80	130	mΩ
Input Capacitance	Ciss			430		рF
Output Capacitance	Coss	V _{DS} =10V, f=1MHz		59		рF
Reverse Transfer Capacitance	Crss			38		рF
Turn-ON Delay Time	t _d (on)			10		ns
Rise Time	t _r	One are difficult Total Circuit		41		ns
Turn-OFF Delay Time	t _d (off)	See specified Test Circuit.		36		ns
Fall Time	t _f			37		ns
Total Gate Charge	Qg			4.7		nC
Gate-to-Source Charge	Qgs	V _{DS} =15V, V _{GS} =4.5V, I _D =4A		0.8		nC
Gate-to-Drain "Miller" Charge	Qgd]		1.1		nC
Diode Forward Voltage	V _{SD}	I _S =4A, V _{GS} =0V		0.82	1.2	V

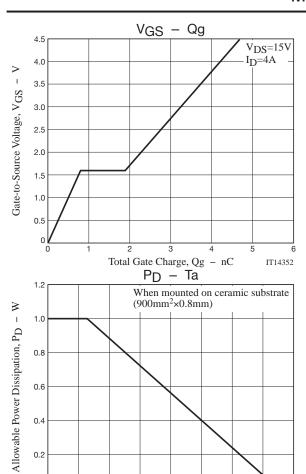
Switching Time Test Circuit



Ordering Information

Device	Package	Shipping	memo
MCH3474-TL-H	MCPH3	3,000pcs./reel	Pb Free and Halogen Free





0.4

0.2

ol

0

20

60

80

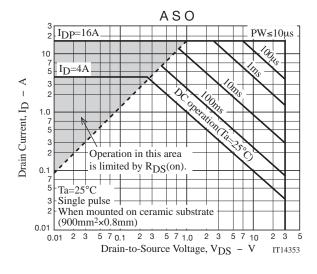
Ambient Temperature, Ta - °C

100

140

160

IT14354

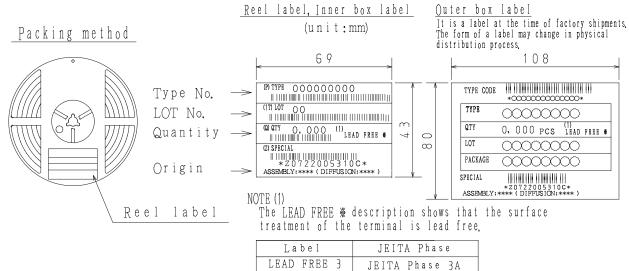


Taping Specification

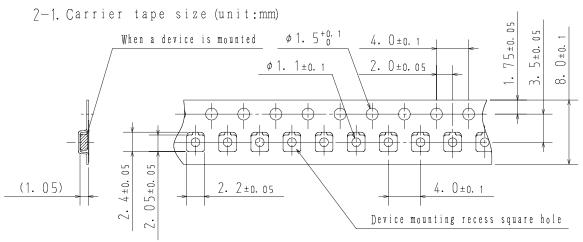
MCH3474-TL-H

1. Packing Format

Package Name	Carrier Tape	Maximun Number of devices contained (pcs)			Packing format		
	Туре	Reel	Inner box	Outer box	Inner BOX (C-1)	Outer BOX (A-7)	
мсрн3	мсрн3	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	

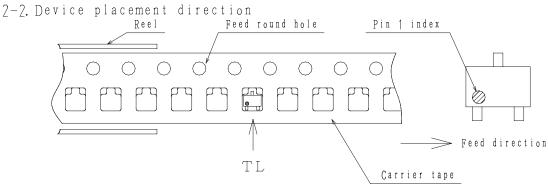


7. Taping configuration



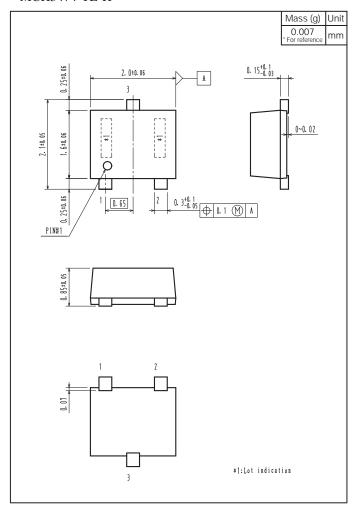
LEAD FREE 4

JEITA Phase 3

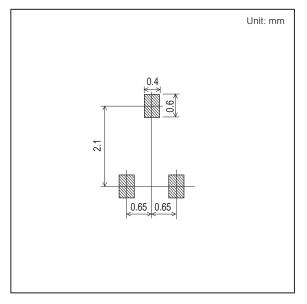


Those with pin 1 index on the feed hole side·····TL

Outline Drawing MCH3474-TL-H



Land Pattern Example



Note on usage: Since the MCH3474 is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.

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