

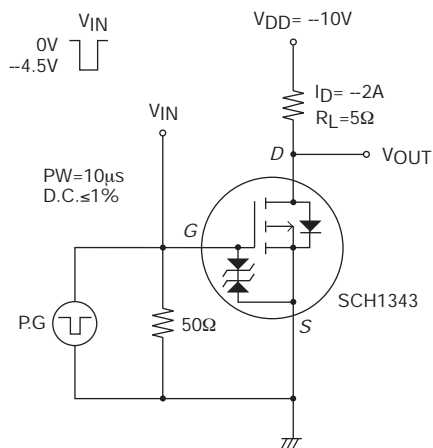


# SCH1343

## Electrical Characteristics at Ta=25°C

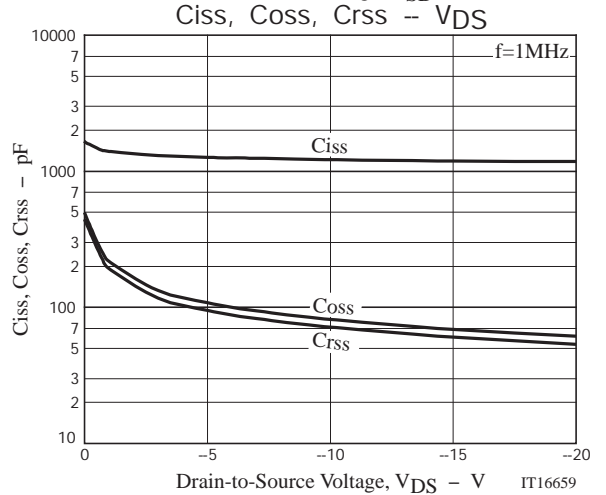
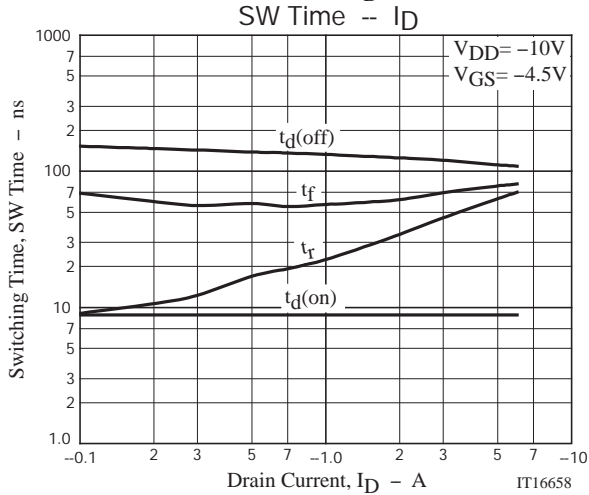
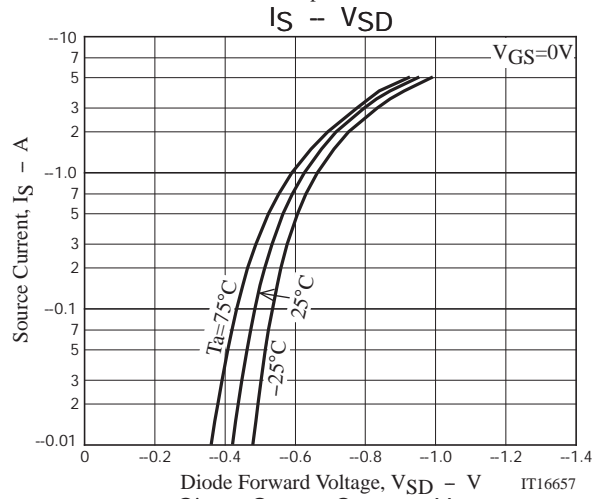
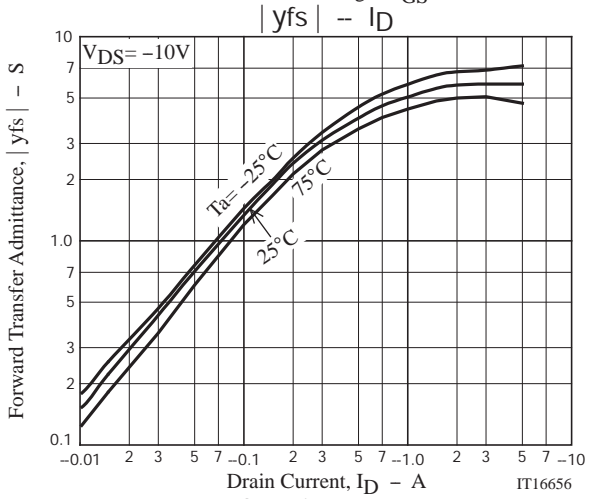
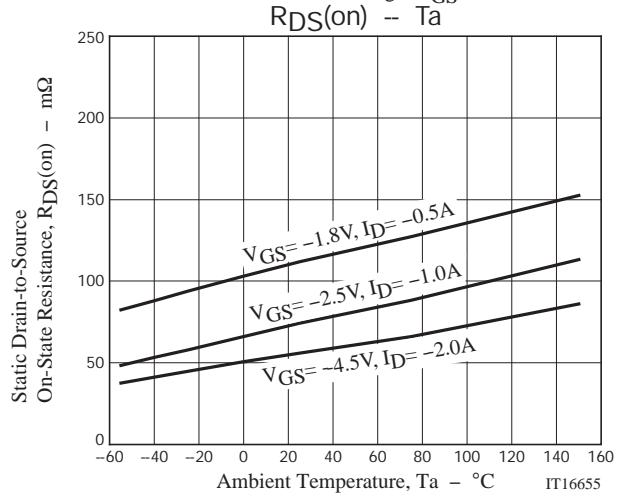
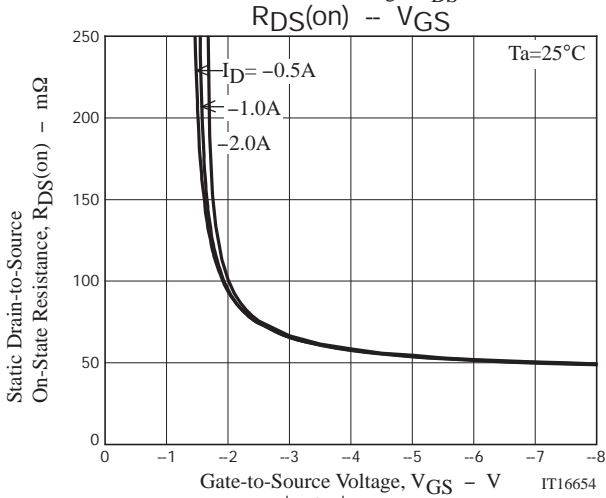
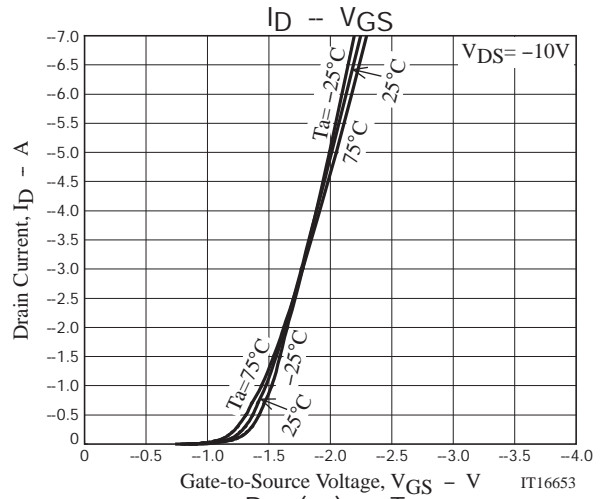
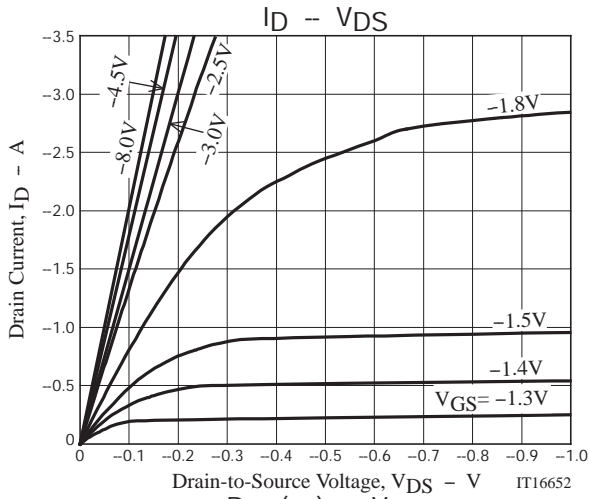
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Drain-to-Source Breakdown Voltage	$V_{(BR)DSS}$	$I_D = -1\text{mA}, V_{GS} = 0\text{V}$	-20			V
Zero-Gate Voltage Drain Current	$I_{DSS}$	$V_{DS} = -20\text{V}, V_{GS} = 0\text{V}$			-1	$\mu\text{A}$
Gate-to-Source Leakage Current	$I_{GSS}$	$V_{GS} = \pm 8\text{V}, V_{DS} = 0\text{V}$			$\pm 10$	$\mu\text{A}$
Cutoff Voltage	$V_{GS(off)}$	$V_{DS} = -10\text{V}, I_D = -1\text{mA}$	-0.4		-1.3	V
Forward Transfer Admittance	$ y_{fs} $	$V_{DS} = -10\text{V}, I_D = -2\text{A}$		6		S
Static Drain-to-Source On-State Resistance	$R_{DS(on)1}$	$I_D = -2\text{A}, V_{GS} = -4.5\text{V}$		55	72	$\text{m}\Omega$
	$R_{DS(on)2}$	$I_D = -1\text{A}, V_{GS} = -2.5\text{V}$		78	110	$\text{m}\Omega$
	$R_{DS(on)3}$	$I_D = -0.5\text{A}, V_{GS} = -1.8\text{V}$		115	173	$\text{m}\Omega$
Input Capacitance	$C_{iss}$	$V_{DS} = -10\text{V}, f = 1\text{MHz}$		1220		pF
Output Capacitance	$C_{oss}$			82		pF
Reverse Transfer Capacitance	$C_{rss}$			72		pF
Turn-ON Delay Time	$t_d(on)$			8.8		ns
Rise Time	$t_r$	See specified Test Circuit.		35		ns
Turn-OFF Delay Time	$t_d(off)$			123		ns
Fall Time	$t_f$			61		ns
Total Gate Charge	$Q_g$	$V_{DS} = -10\text{V}, V_{GS} = -4.5\text{V}, I_D = -3.5\text{A}$		11		nC
Gate-to-Source Charge	$Q_{gs}$			1.9		nC
Gate-to-Drain "Miller" Charge	$Q_{gd}$			1.9		nC
Diode Forward Voltage	$V_{SD}$		$I_S = -3.5\text{A}, V_{GS} = 0\text{V}$		-0.83	-1.2

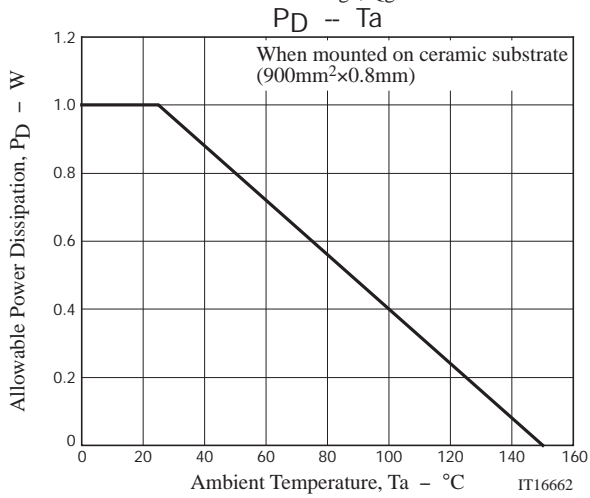
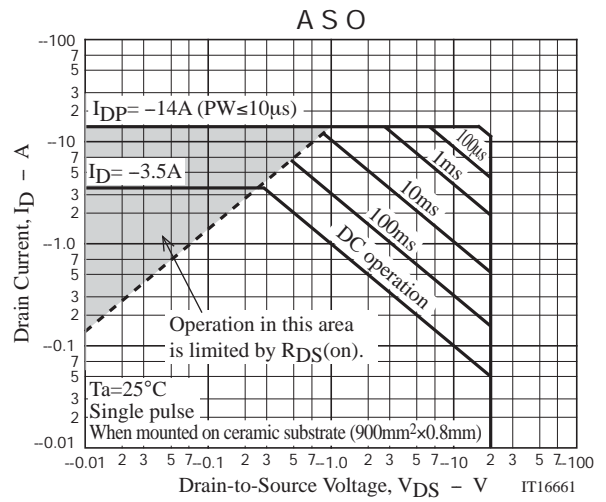
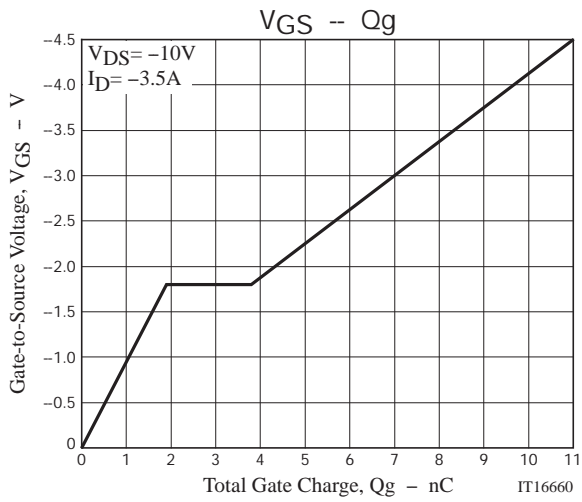
## Switching Time Test Circuit



## Ordering Information

Device	Package	Shipping	memo
SCH1343-TL-H	SCH6	5,000pcs./reel	Pb Free and Halogen Free





Taping Specification

SCH1343-TL-H

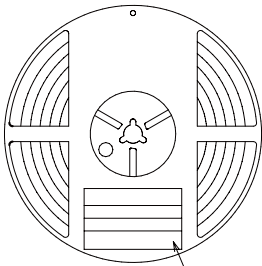
1. Packing Format

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)
SCH6	SCH6	5,000	25,000	150,000	5 reels contained Dimensions:mm (external) 183×72×185	6 inner boxes contained Dimensions:mm (external) 440×195×210

Reel label, Inner box label  
(unit: mm)

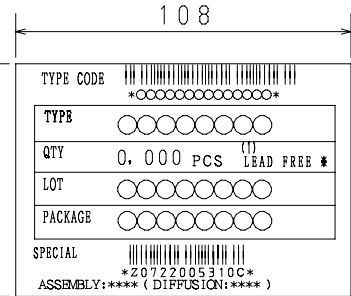
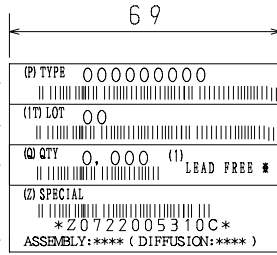
Outer box label  
It is a label at the time of factory shipments.  
The form of a label may change in physical distribution process.

Packing method



Reel label

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



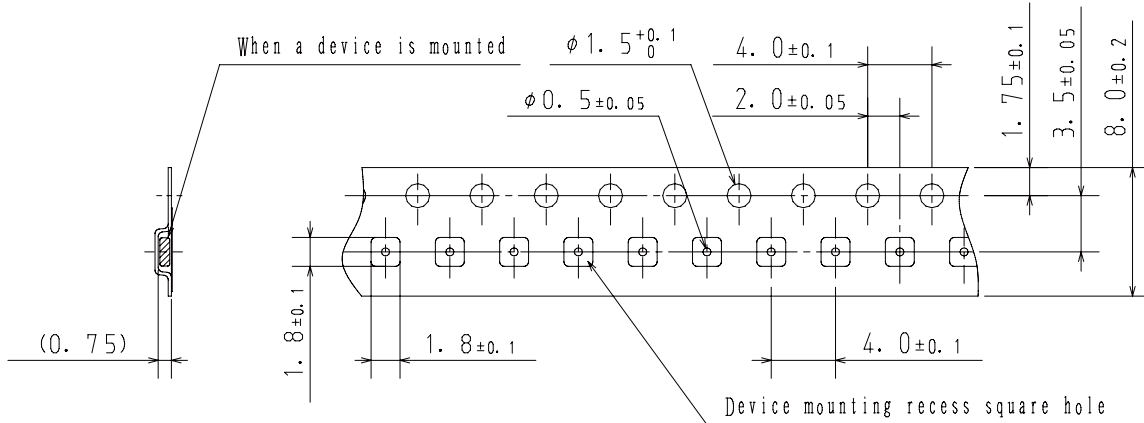
NOTE (1)

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

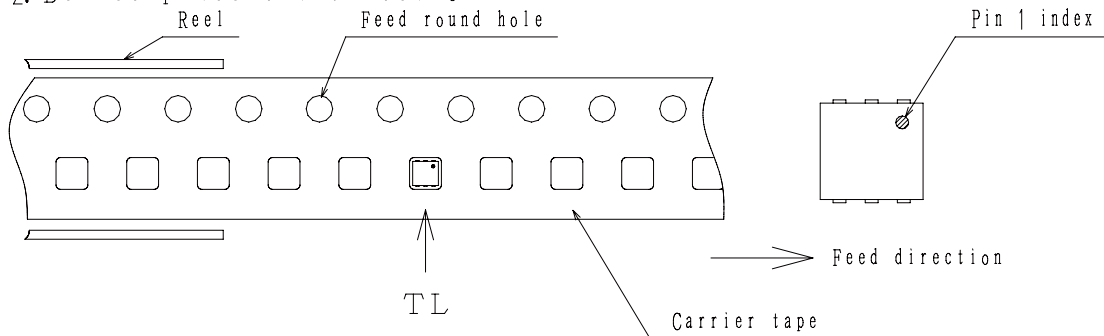
Label	JEITA Phase
LEAD FREE 3	JEITA Phase 3A
LEAD FREE 4	JEITA Phase 3

2. Taping configuration

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



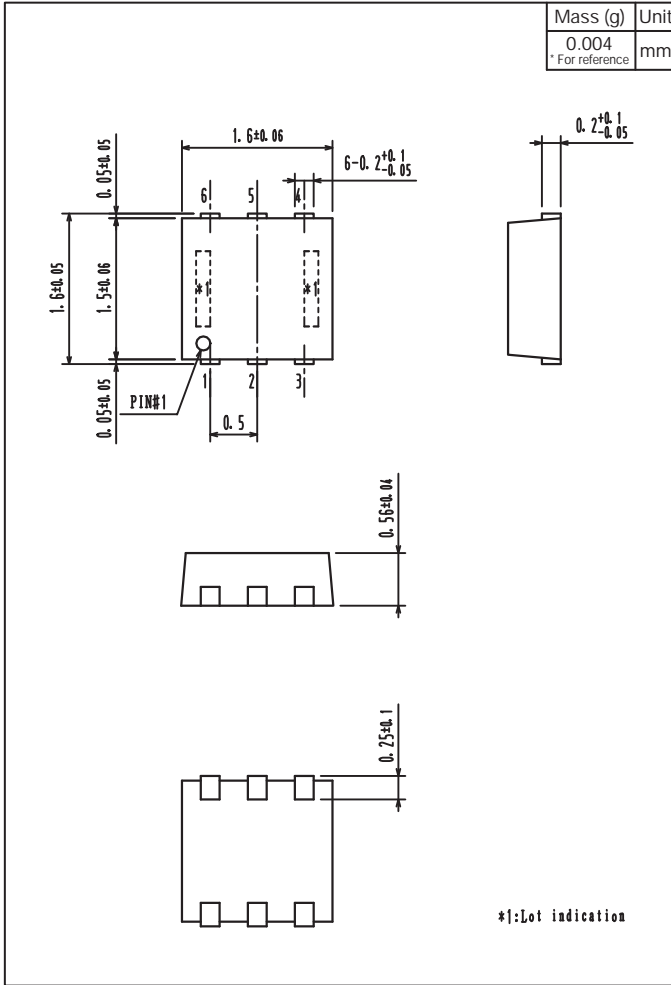
2-2. Device placement direction



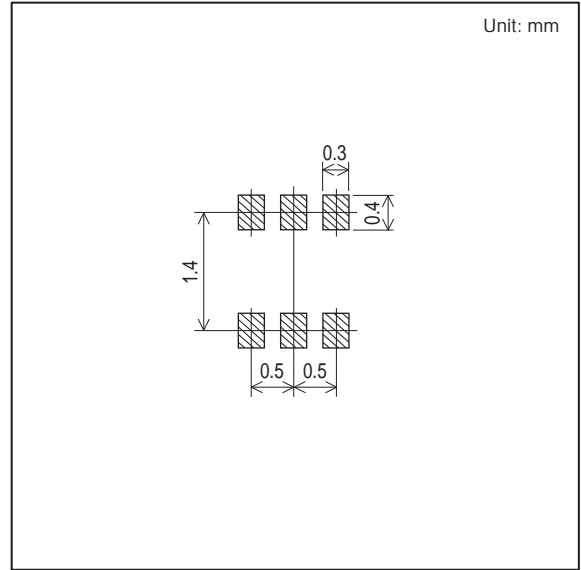
Those with pin 1 index on the feed hole side.....TL

# SCH1343

## Outline Drawing SCH1343-TL-H



## Land Pattern Example



Note on usage : Since the SCH1343 is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.

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