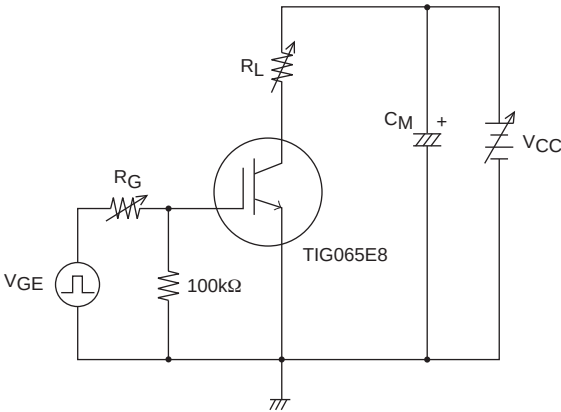


TIG065E8

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector-to-Emitter Breakdown Voltage	$V_{(BR)CES}$	$I_C=2mA, V_{GE}=0V$	400			V
Collector-to-Emitter Cutoff Current	I_{CES}	$V_{CE}=320V, V_{GE}=0V$			10	μA
Gate-to-Emitter Leakage Current	I_{GES}	$V_{GE}=\pm 4V, V_{CE}=0V$			± 10	μA
Gate-to-Emitter Threshold Voltage	$V_{GE(off)}$	$V_{CE}=10V, I_C=1mA$	0.4		0.9	V
Collector-to-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=100A, V_{GE}=2.5V$		4.2	7	V
Input Capacitance	C_{ies}	$V_{CE}=10V, f=1MHz$		3100		pF
Output Capacitance	C_{oes}			30		pF
Reverse Transfer Capacitance	C_{res}			23		pF

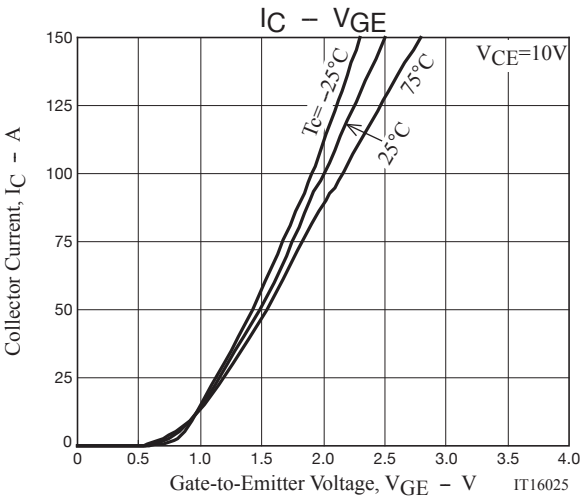
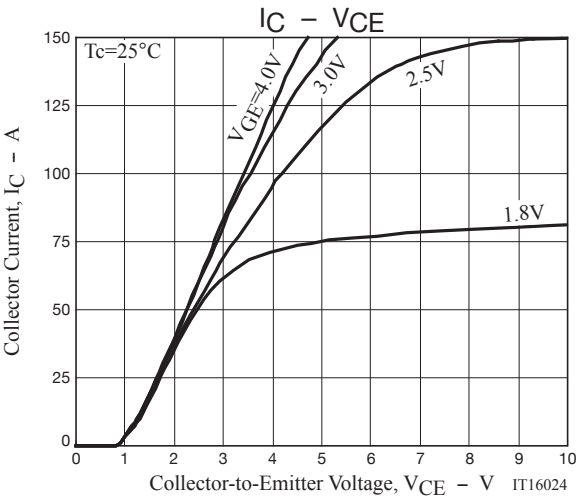
Fig.1 Large Current R Load Switching Circuit

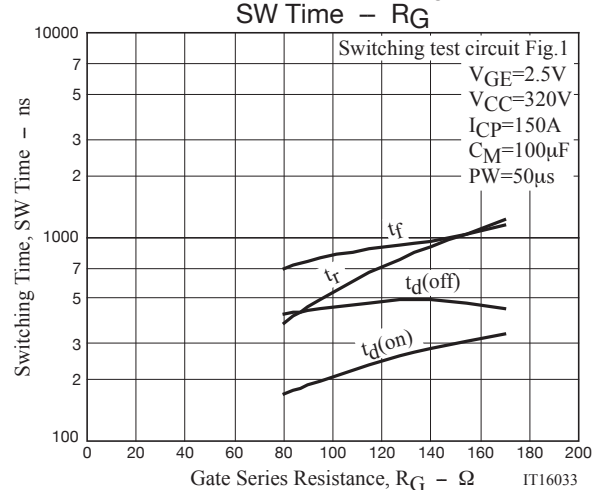
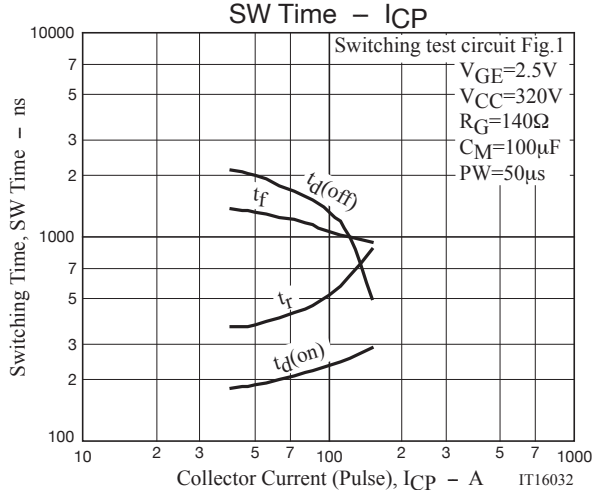
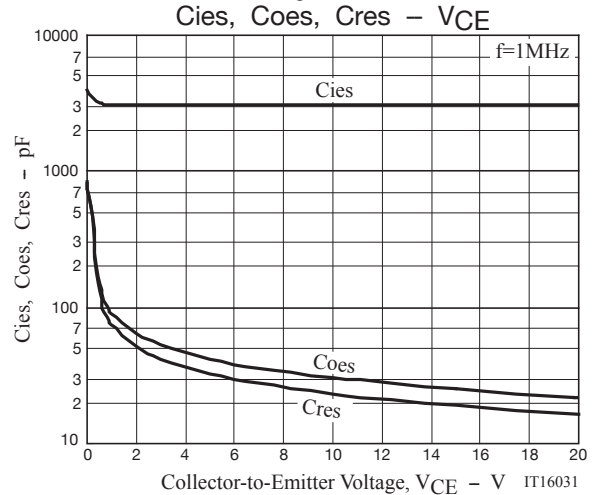
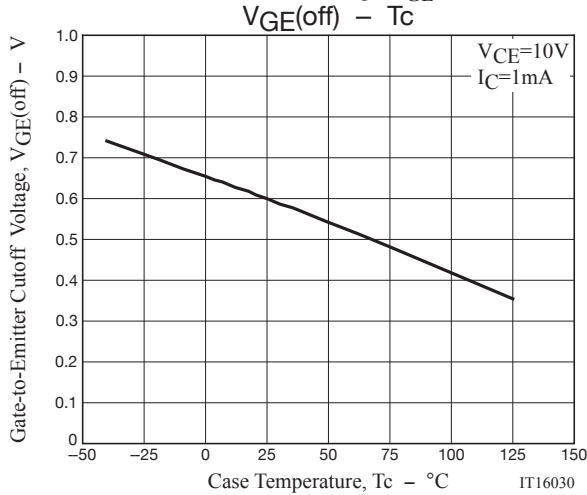
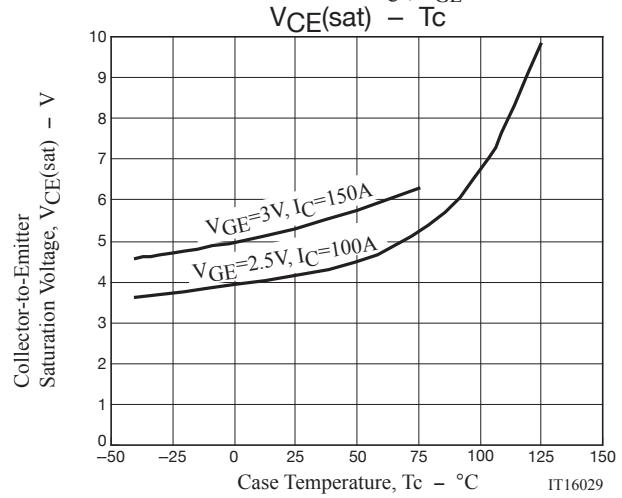
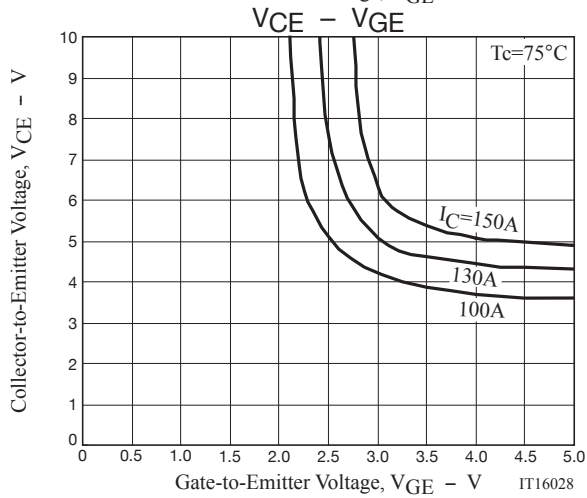
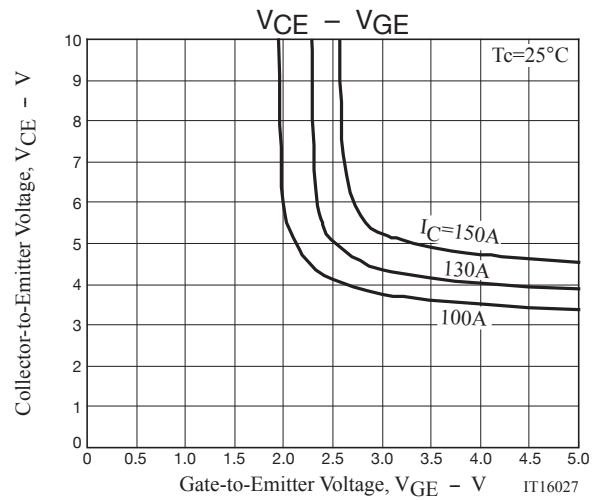
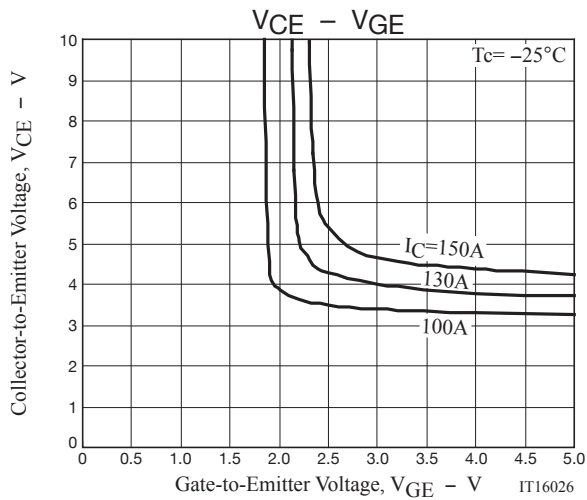


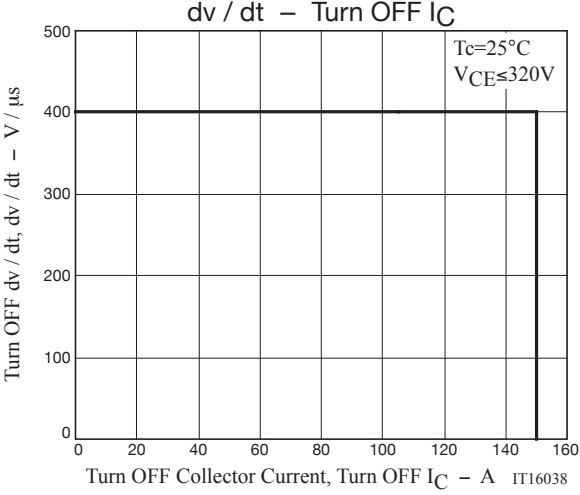
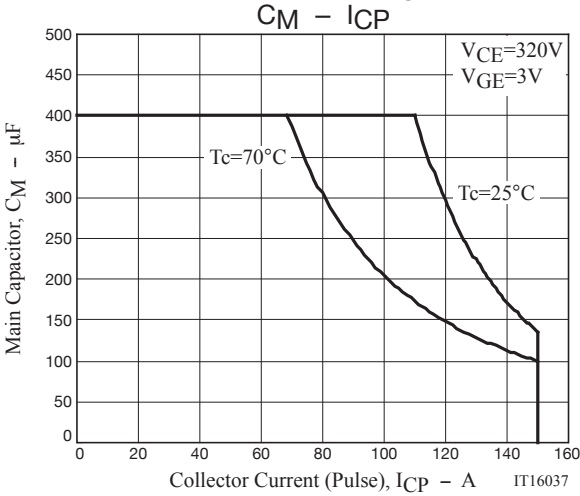
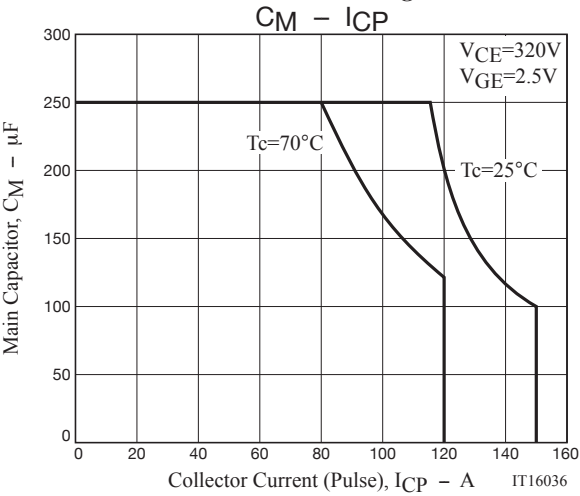
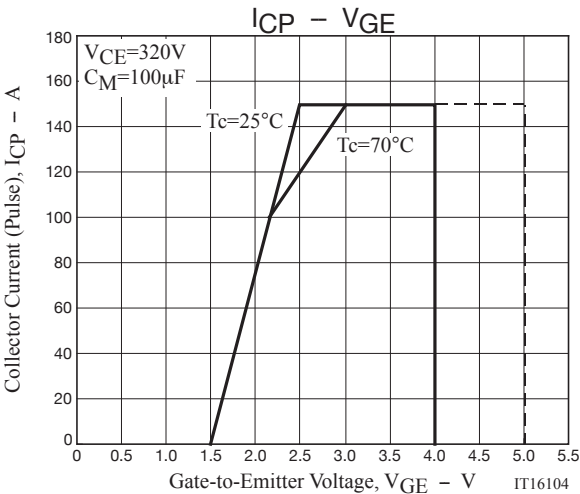
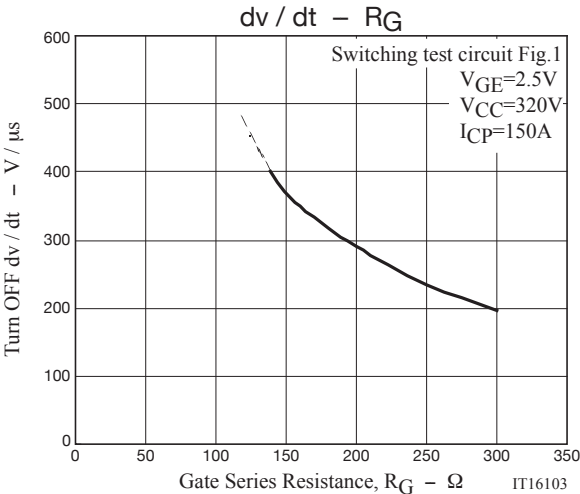
Note1. The collector voltage gradient dv / dt must be smaller than $400V / \mu s$ to protect the device of gate-series resistance R_G when it is turned off.

Ordering Information

Device	Package	Shipping	memo
TIG065E8-TL-H	ECH8	3,000pcs./reel	Pb Free and Halogen Free



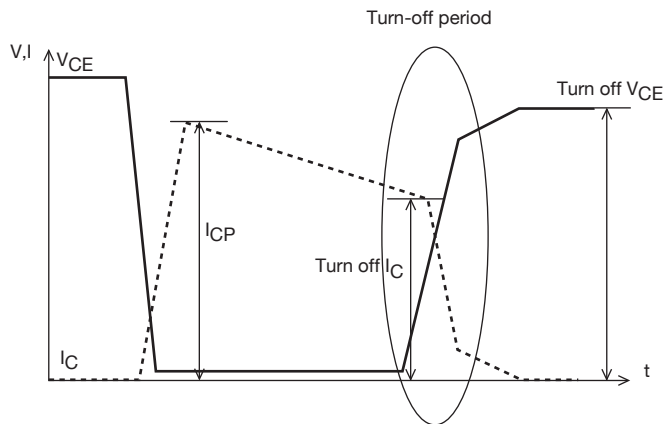
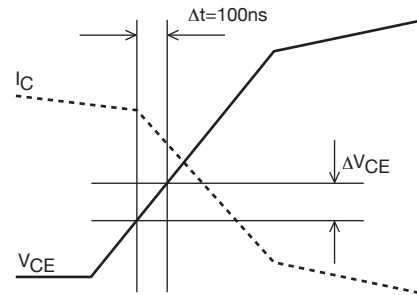




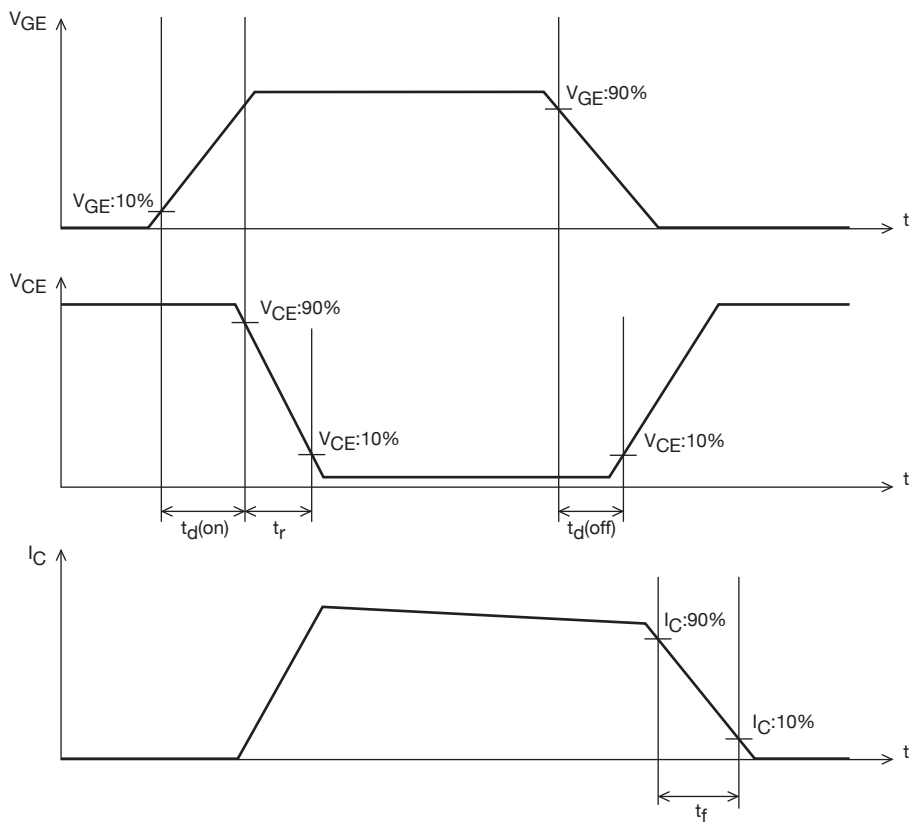
Definition of dv/dt

dv/dt is defined as the maximum slope of the below V_{CE} curve during turn-off period.

$$dv/dt = \Delta V_{CE} / \Delta t = \Delta V_{CE} / 100ns$$

Overall waveform**Enlarged picture of turn-off period**

IT15323

Definition of Switching Time

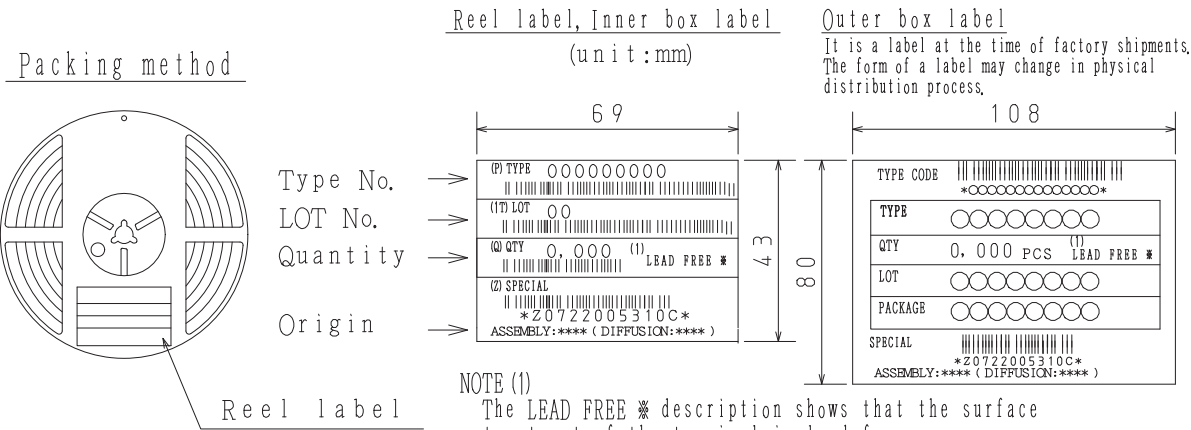
IT15324

Embossed Taping Specification

TIG065E8-TL-H

1. Packing Format

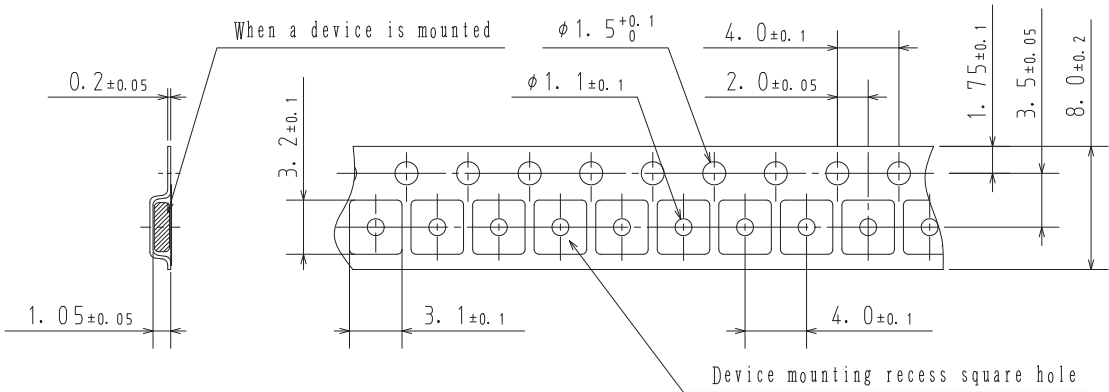
Package Name	Carrier Tape Type	Maximum Number of devices contained (pcs)			Packing format	
		Reel	Inner box	Outer box	Inner BOX (C-1)	Outer BOX (A-7)
ECH8	CPH6	3,000	15,000	90,000	5 reels contained Dimensions:mm (external) 183×72×185	6 inner boxes contained Dimensions:mm (external) 440×195×210



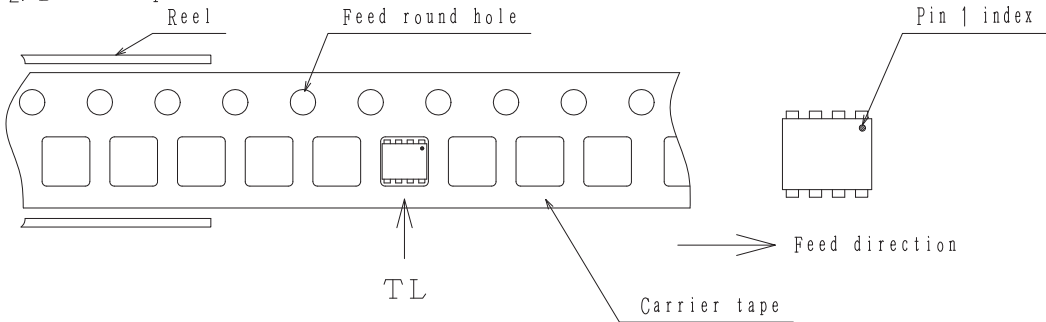
Label	JEITA Phase
LEAD FREE 3	JEITA Phase 3A
LEAD FREE 4	JEITA Phase 3

2. Taping configuration

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



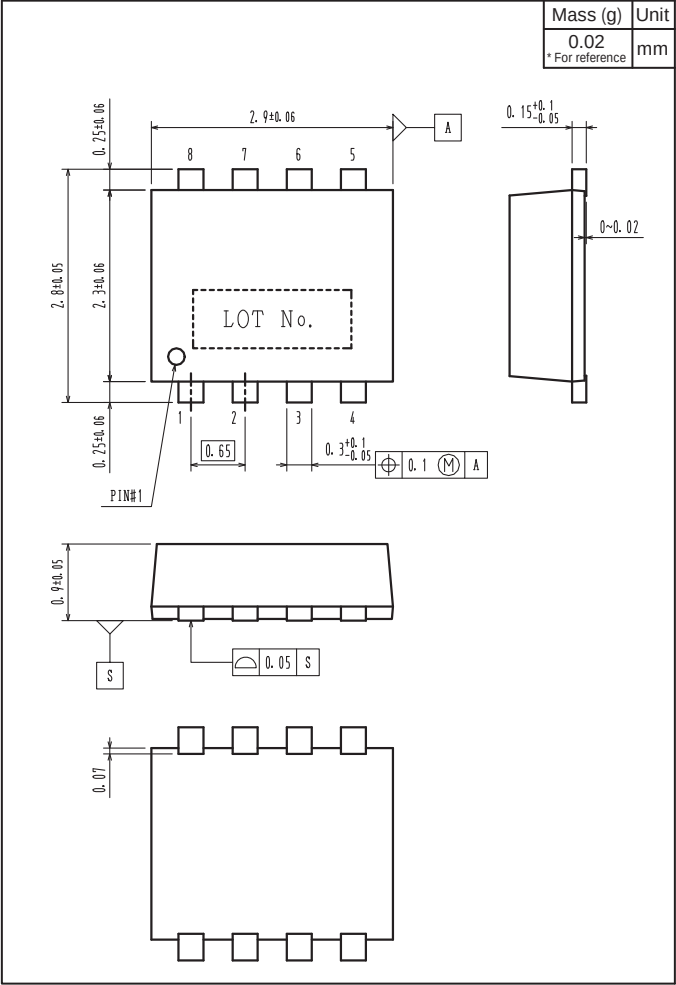
2-2. Device placement direction



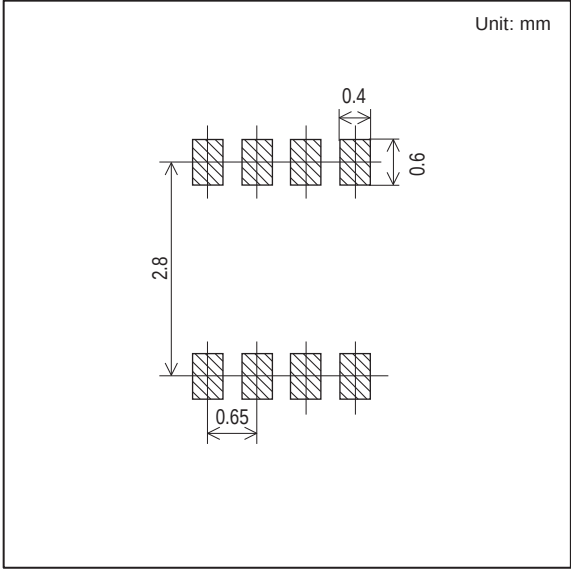
Those with pin 1 index on the feed hole side.....TL

TIG065E8

Outline Drawing
TIG065E8-TL-H



Land Pattern Example



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