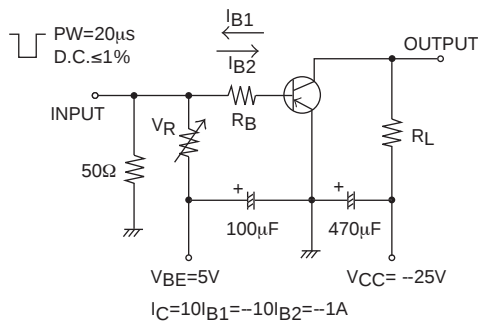


MCH6123

Electrical Characteristics at Ta=25°C

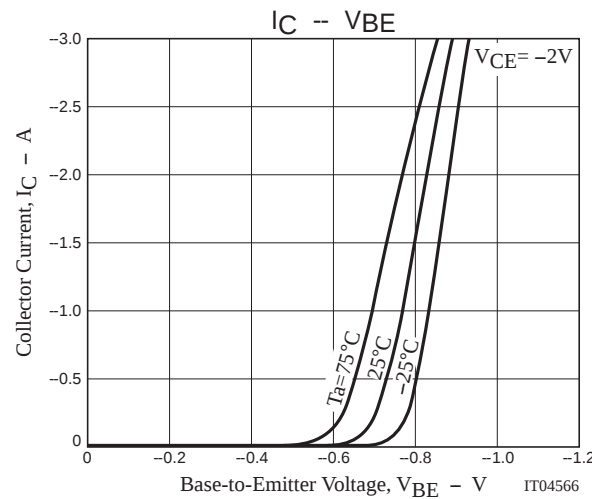
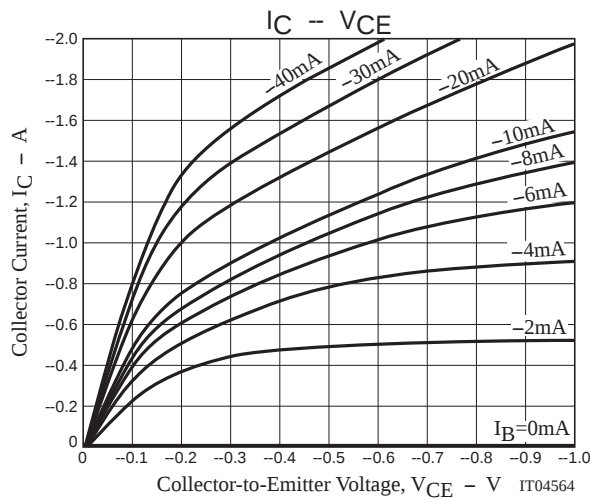
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector Cutoff Current	ICBO	VCE= -40V, IE=0A			-1	μA
Emitter Cutoff Current	IEBO	VEB= -4V, IC=0A			-1	μA
DC Current Gain	hFE	VCE= -2V, IC= -100mA	200		560	
Gain-Bandwidth Product	fT	VCE= -10V, IC= -500mA		390		MHz
Output Capacitance	Cob	VCE= -10V, f=1MHz		24		pF
Collector-to-Emitter Saturation Voltage	VCE(sat)1	IC= -1A, IB= -50mA		-115	-230	mV
	VCE(sat)2	IC= -2A, IB= -100mA		-240	-650	mV
Base-to-Emitter Saturation Voltage	VBE(sat)	IC= -2A, IB= -100mA		-0.88	-1.2	V
Collector-to-Base Breakdown Voltage	V(BR)CBO	IC= -10μA, IE=0A	-50			V
Collector-to-Emitter Breakdown Voltage	V(BR)CES	IC= -100μA, RE=0Ω	-50			V
Collector-to-Emitter Breakdown Voltage	V(BR)CEO	IC= -1mA, RE=∞	-50			V
Emitter-to-Base Breakdown Voltage	V(BR)EBO	IE= -10μA, IC=0A	-6			V
Turn-On Time	ton	See specified Test Circuit.		30		ns
Storage Time	tstg			230		ns
Fall Time	tf			18		ns

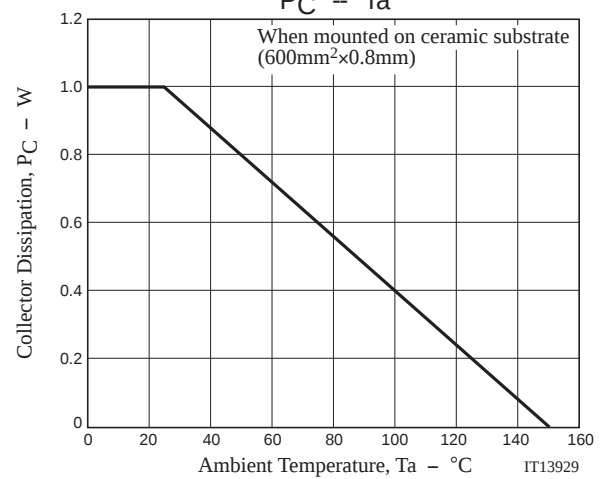
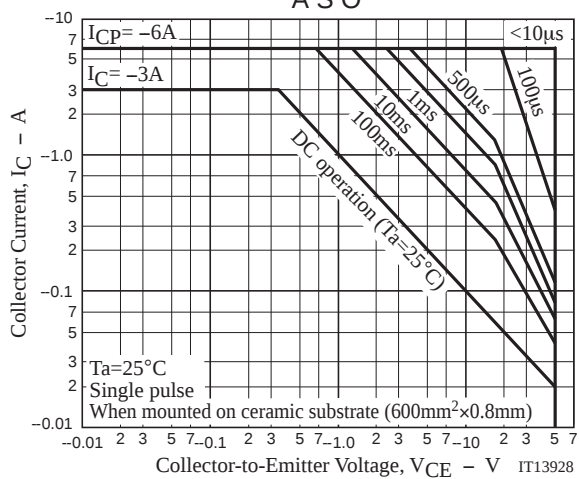
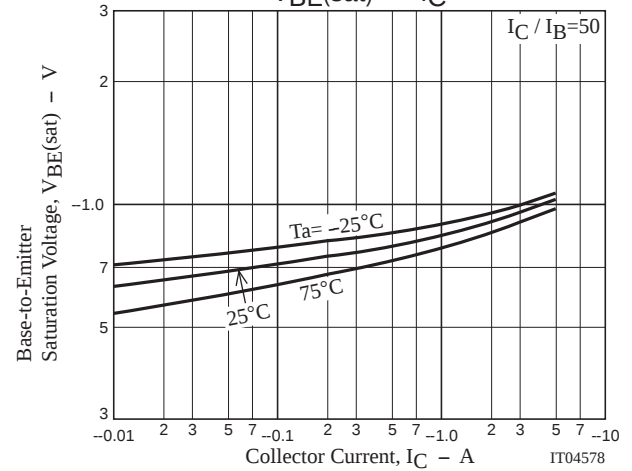
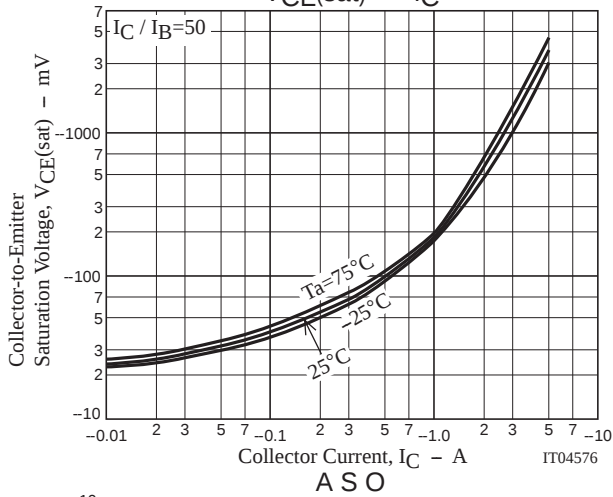
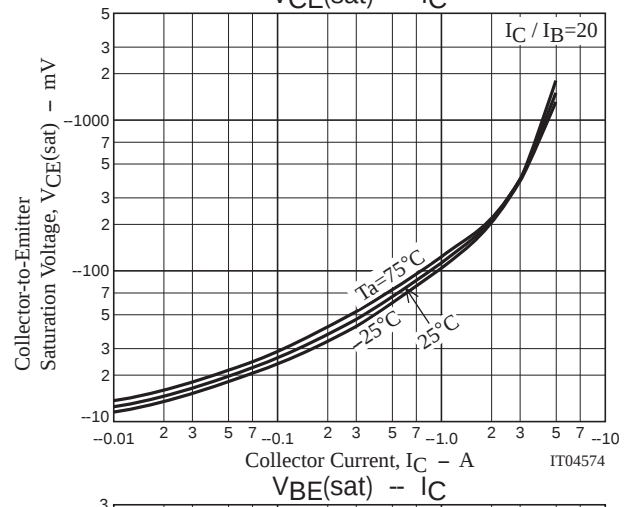
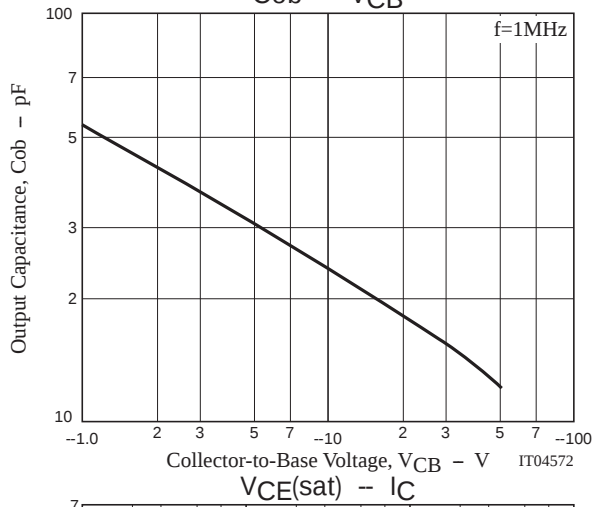
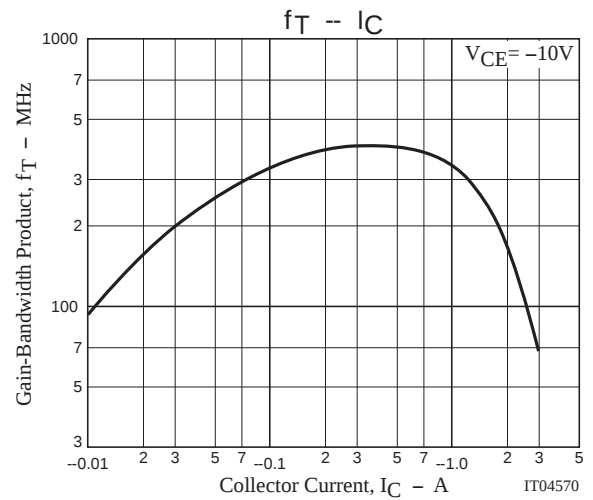
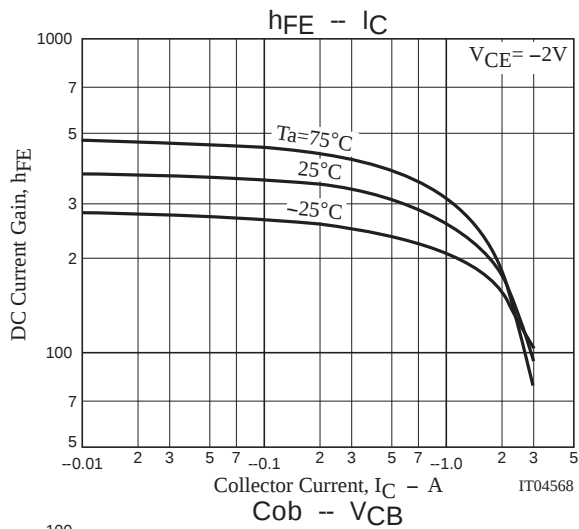
Switching Time Test Circuit



Ordering Information

Device	Package	Shipping	memo
MCH6123-TL-E	MCPH6	3,000pcs./reel	Pb Free





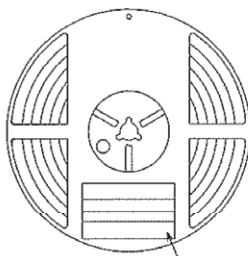
Embossed Taping Specification

MCH6123-TL-E

1. Packing Format

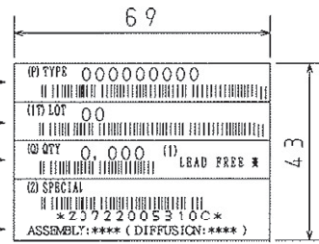
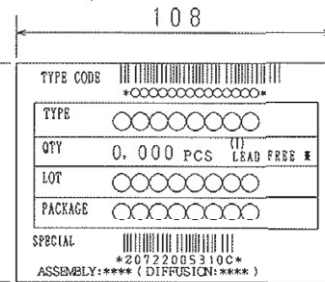
Package Name	Carrier Tape Type	Maximum Number of devices contained (pcs)			Packing format	
		Reel	Inner box	Outer box	Inner BOX (C-1)	Outer BOX (A-7)
MCPH6	MCP4	3,000	15,000	90,000	5 reels contained Dimensions:mm (external) 183×72×185	6 inner boxes contained Dimensions:mm (external) 440×195×210

Packing method



Reel label

Type No.
LOT No.
Quantity
Origin

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.

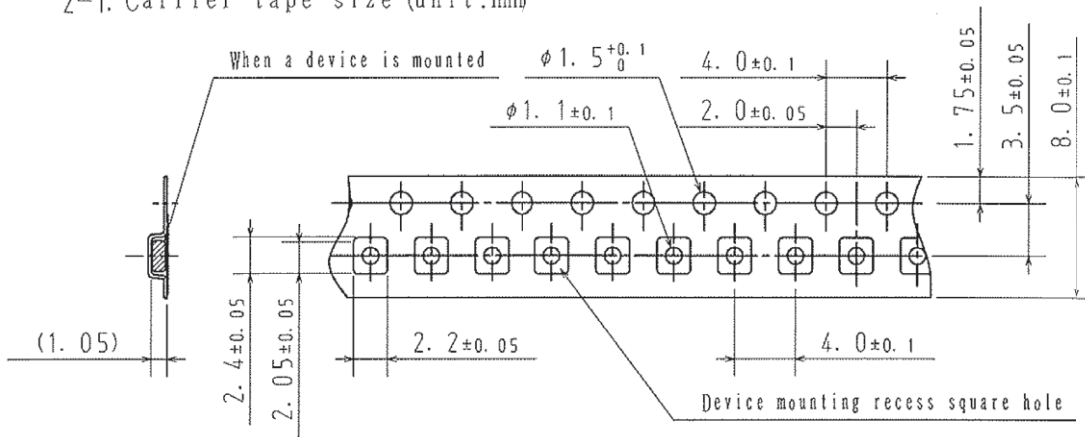
NOTE (1)

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

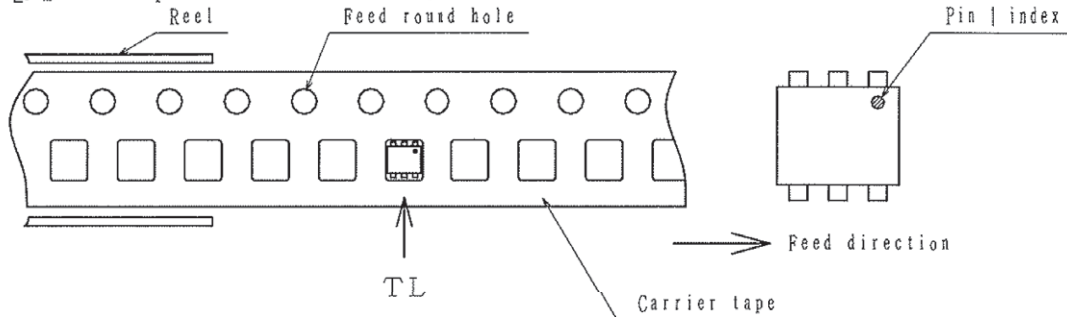
Label	JEITA Phase
LEAD FREE 3	JEITA Phase 3A
LEAD FREE 4	JEITA Phase 3

2. Taping configuration

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



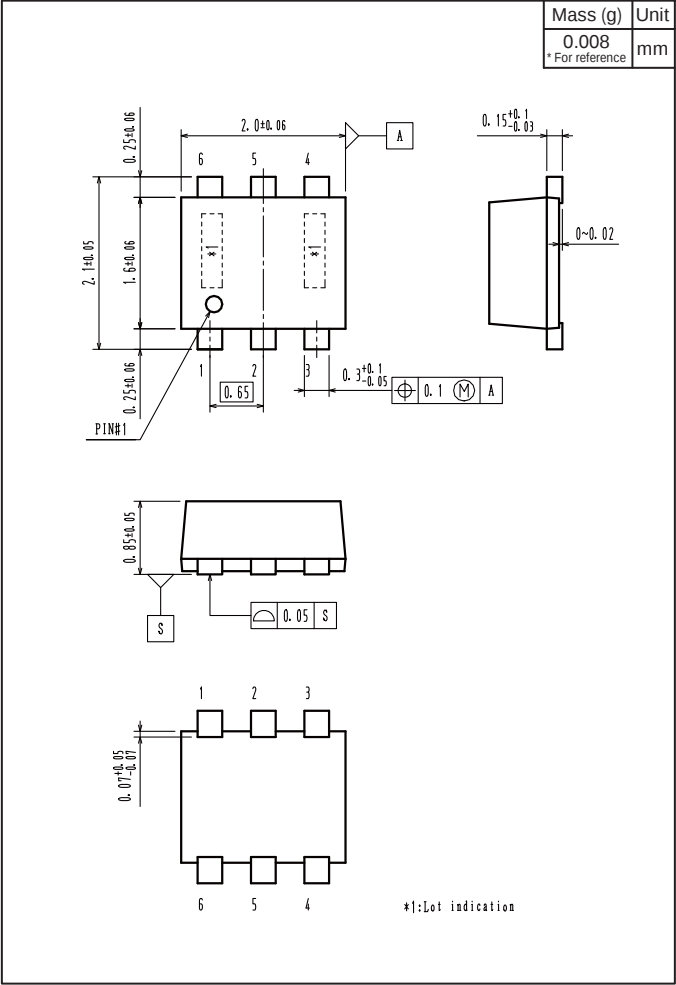
2-2. Device placement direction



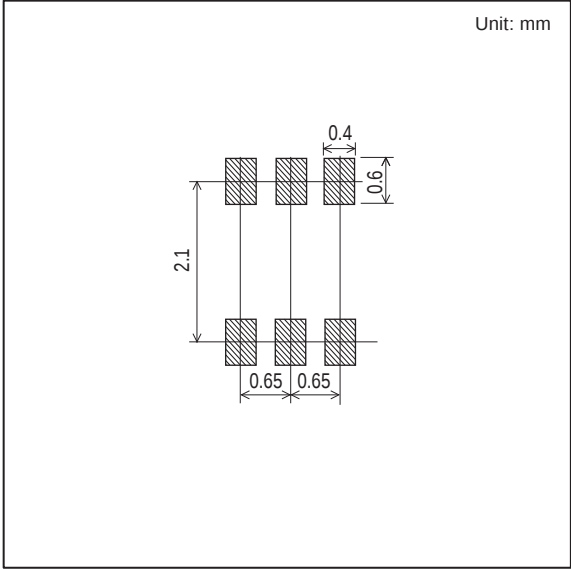
Those with pin 1 index on the feed hole side.....TL

MCH6123

Outline Drawing
MCH6123-TL-E



Land Pattern Example



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