

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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MCH6534



http://onsemi.com

Bipolar Transistor 15V, 0.7A, Low VCE(sat) NPN Single MCPH6

Applications

Low-frequency power amplifier, high-speed switching motor drivers, muting

Features

- · Composite type with 2 NPN transistors contained in a single package, facilitating high-density mounting
- Ultrasmall package permitting applied sets to be small and slim
- · Small ON-resistance (Ron)

Specifications

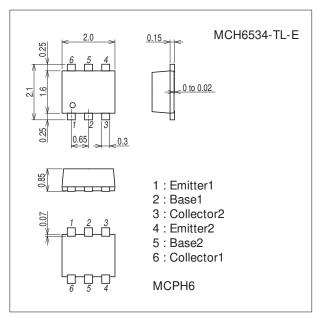
Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	VCBO		20	V
Collector-to-Emitter Voltage	VCEO		15	V
Emitter-to-Base Voltage	VEBO		5	V
Collector Current	IC		700	mA
Collector Current (Pulse)	ICP		1.4	Α
Collector Dissipation	PC	When mounted on ceramic substrate (600mm ² ×0.8mm)	0.5	W
Total Power Dissipation	PT	When mounted on ceramic substrate (600mm ² ×0.8mm)	0.55	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

Package Dimensions

unit: mm (typ) 7022A-011



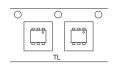
Product & Package Information

• Package : MCPH6

• JEITA, JEDEC : SC-88, SC-70-6, SOT-363

• Minimum Packing Quantity : 3,000 pcs./reel

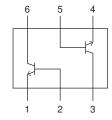
Packing Type: TL





Marking

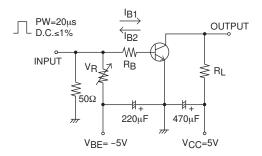
Electrical Connection



Electrical Characteristics at Ta=25°C

Parameter	Cumbal	Conditions	Ratings			Lleit	
Farameter	Symbol Conditions		min	typ	max	Unit	
Collector Cutoff Current	ICBO	V _{CB} =15V, I _E =0A			100	nA	
Emitter Cutoff Current	IEBO	V _{EB} =4V, I _C =0A			100	nA	
DC Current Gain	hFE	V _{CE} =2V, I _C =10mA	300		800		
Gain-Bandwidth Product	fŢ	V _{CE} =2V, I _C =50mA		330		MHz	
Output Capacitance	Cob	V _{CB} =10V, f=1MHz		3.2		pF	
Collector-to-Emitter Saturation Voltage	V _{CE} (sat)	I _C =200mA, I _B =10mA		150	300	mV	
Base-to-Emitter Saturation Voltage	V _{BE} (sat)	I _C =200mA, I _B =10mA		0.9	1.2	V	
Collector-to-Base Breakdown Voltage	V(BR)CBO	I _C =10μA, I _E =0A	20			V	
Collector-to-Emitter Breakdown Voltage	V(BR)CEO	IC=1mA, RBE=∞	15			V	
Emitter-to-Base Breakdown Voltage	V(BR)EBO	IE=10μA, IC=0A	5			V	
Turn-ON Time	ton			30		ns	
Storage Time	t _{stg}	See specified Test Circuit.		77		ns	
Fall Time	tf			40		ns	

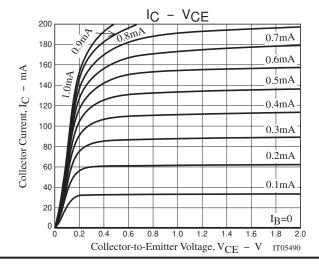
Switching Time Test Circuit

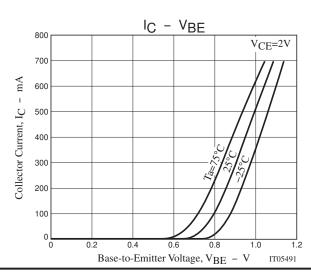


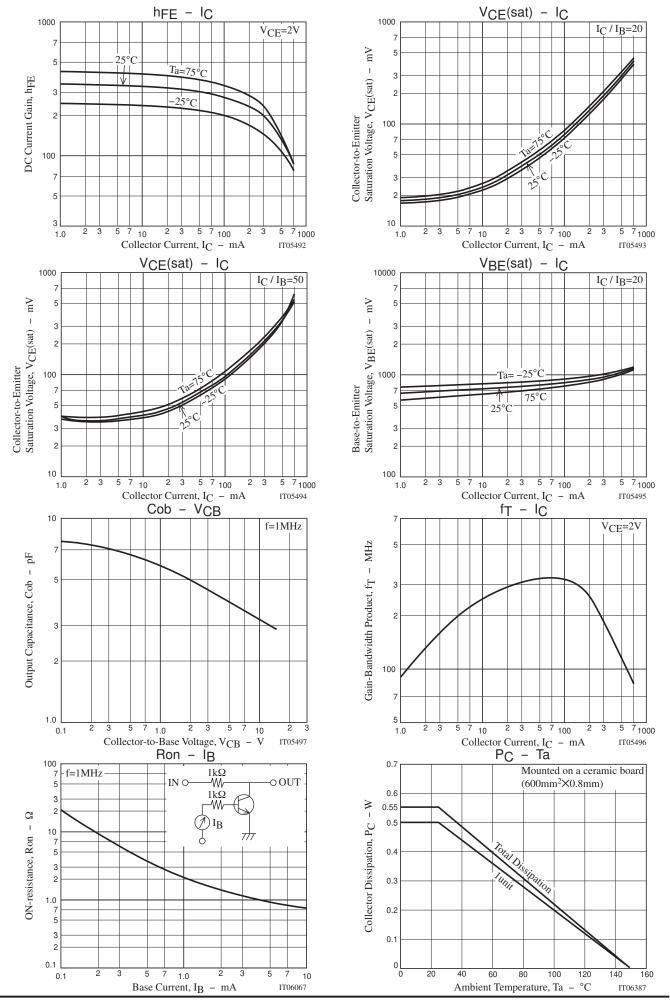
 $I_{C}=20I_{B1}=-20I_{B2}=500mA$

Ordering Information

Device	Package	Shipping	memo	
MCH6534-TL-E	MCPH6	3,000pcs./reel	Pb Free	





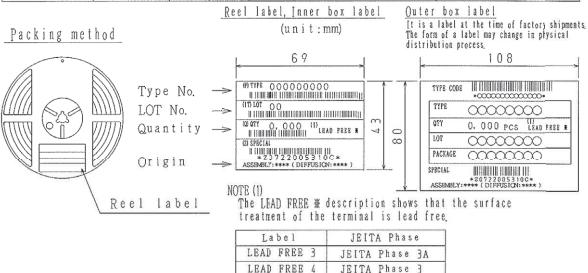


Embossed Taping Specification

MCH6534-TL-E

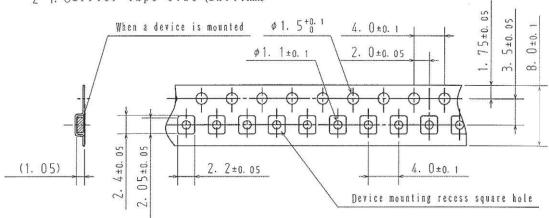
1. Packing Format

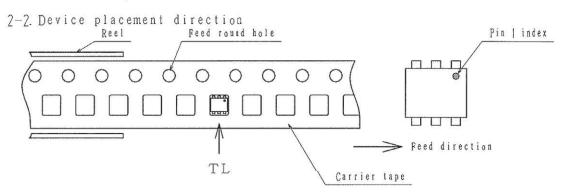
Package Name	Carrier Tape	Maximum Number of devices contained (pcs)			Packing format		
	Туре	Reel	[aner box	Outer box	Inner BOX (C-1)	Outer BOX (A-7)	
мсрн6	MCP4	3, 000	15, 000	90,000	5 reels contained	6 inner boxes contained	
					Dimensions:mm (external)	Dimensions:mm (external)	
					183×72×185	440×195×210	



7. Taping configuration





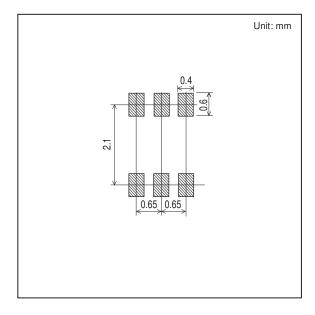


Those with pin 1 index on the feed hole side · · · · · TL

Outline Drawing

MCH6534-TL-E

Land Pattern Example



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