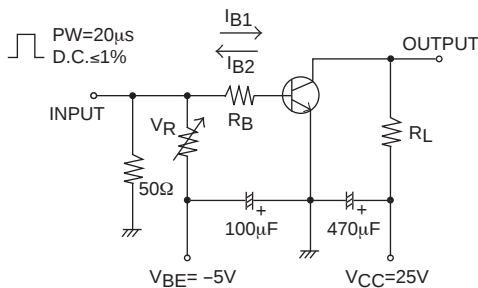


MCH3105 / MCH3205

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		(360)380		MHz
Output Capacitance	Cob	VCE=(-)10V, f=1MHz		(24)13		pF
Collector-to-Emitter Saturation Voltage	VCE(sat)1	IC=(-)1A, IB=(-)50mA		(-100)80	(-200)120	mV
	VCE(sat)2	IC=(-)2A, IB=(-)100mA		(-185)140	(-500)210	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)80			V
Collector-to-Emitter Breakdown Voltage	V(BR)CES	IC=(-)100μA, RBE=0Ω	(-50)80			V
	V(BR)CEO	IC=(-)1mA, RBE=∞	(-)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)35		ns
Storage Time	tstg			(230)300		ns
Fall Time	tf			(15)22		ns

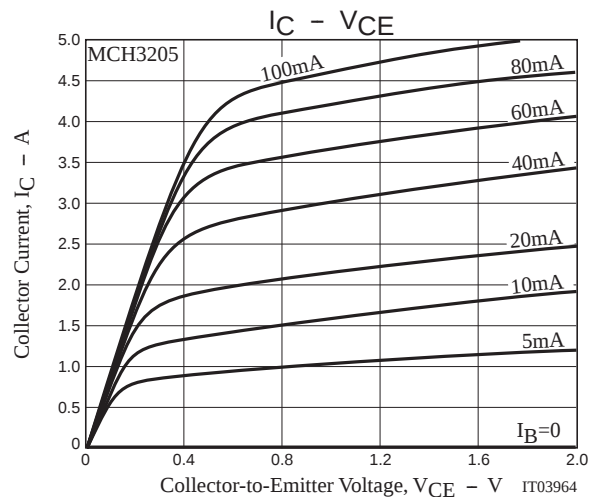
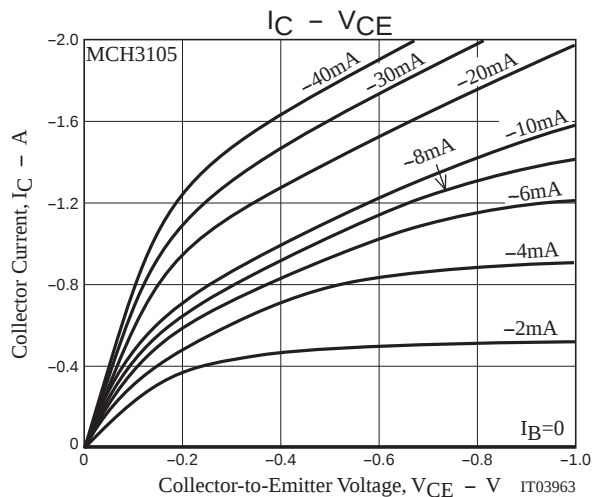
Switching Time Test Circuit

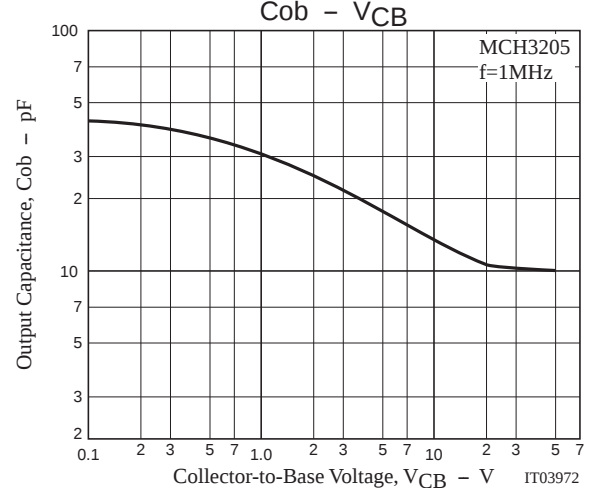
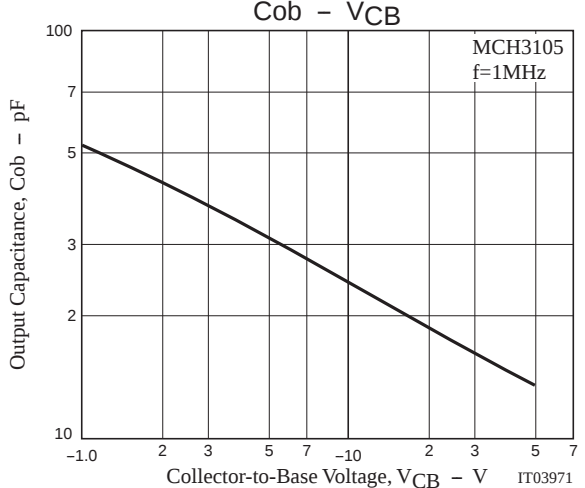
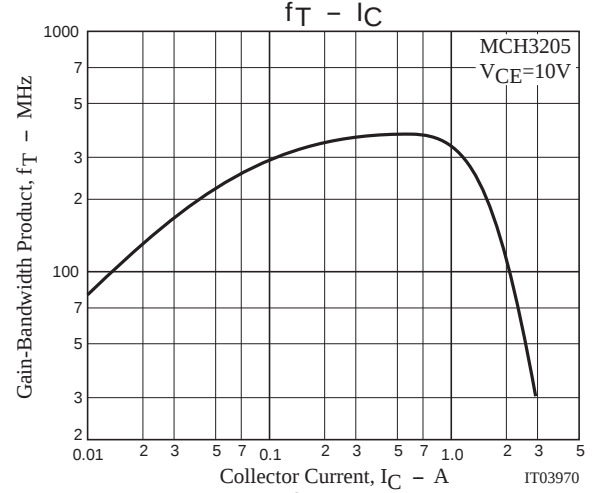
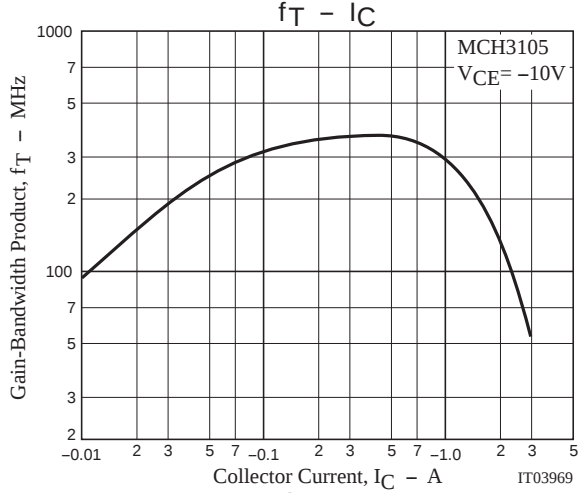
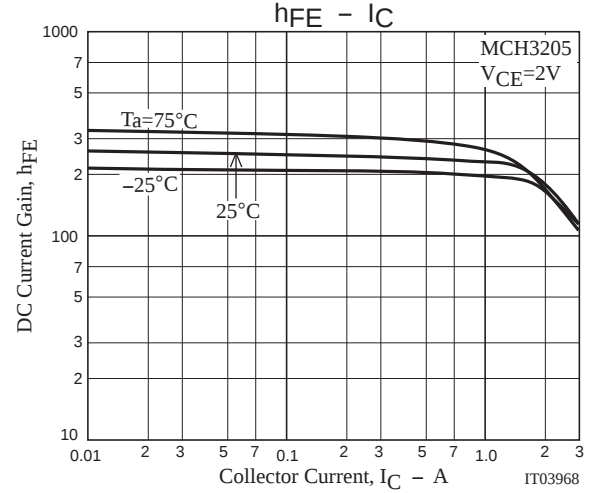
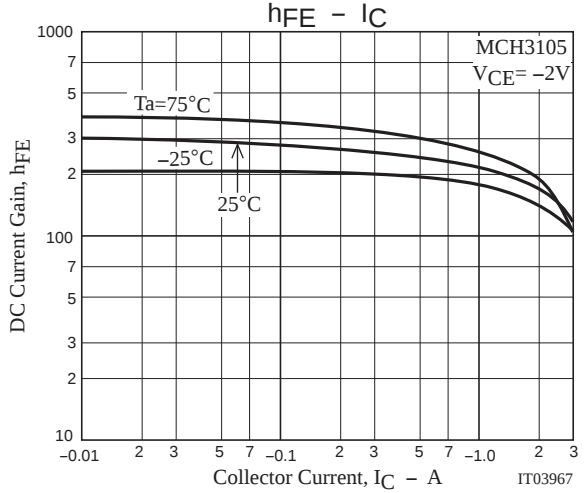
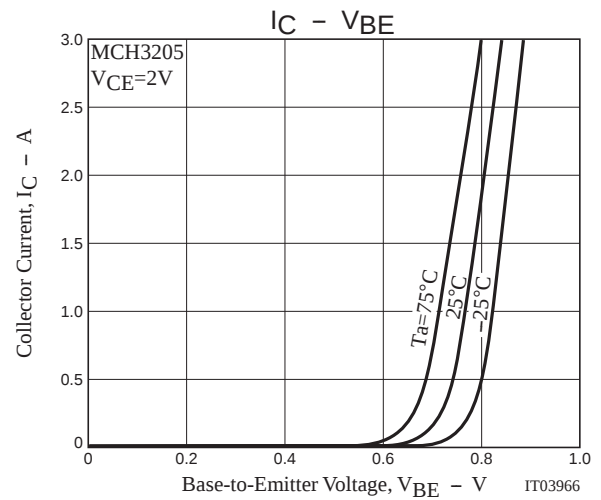
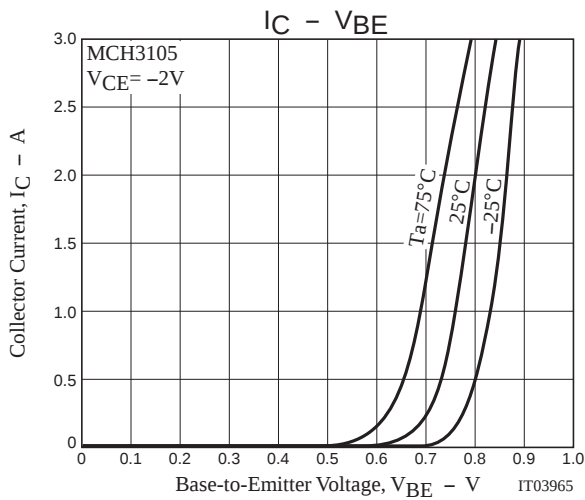


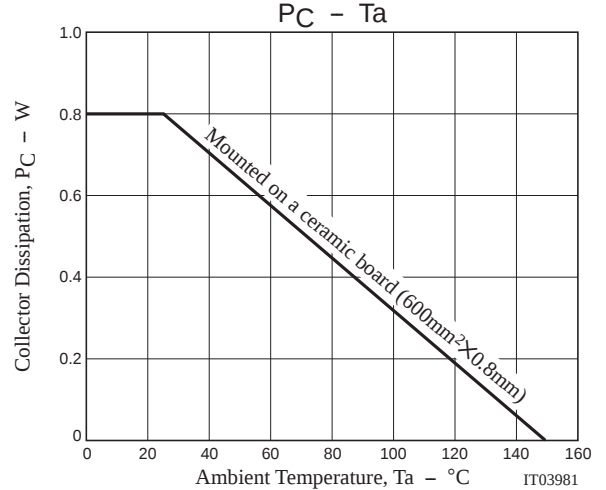
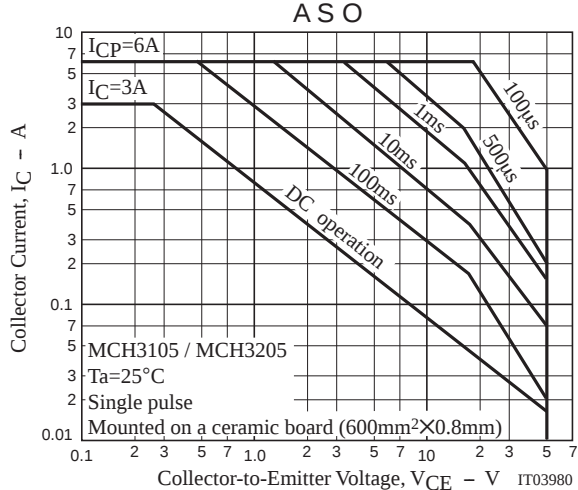
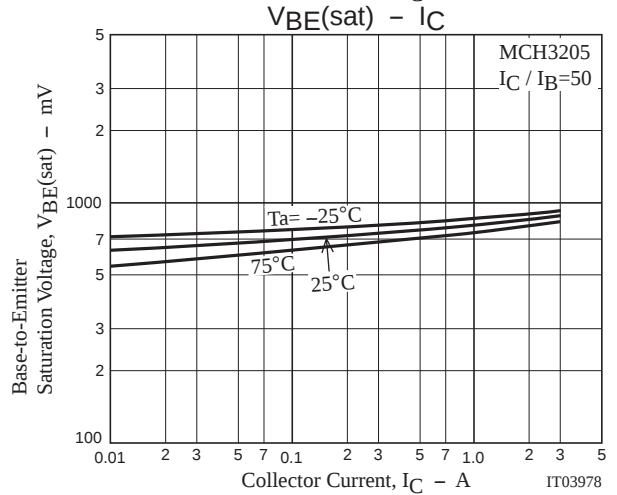
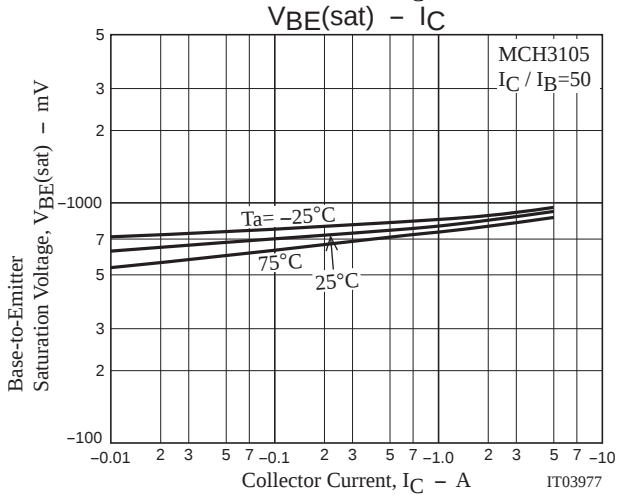
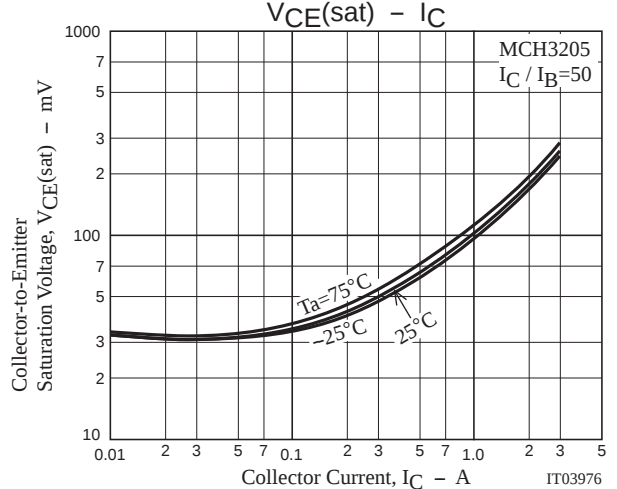
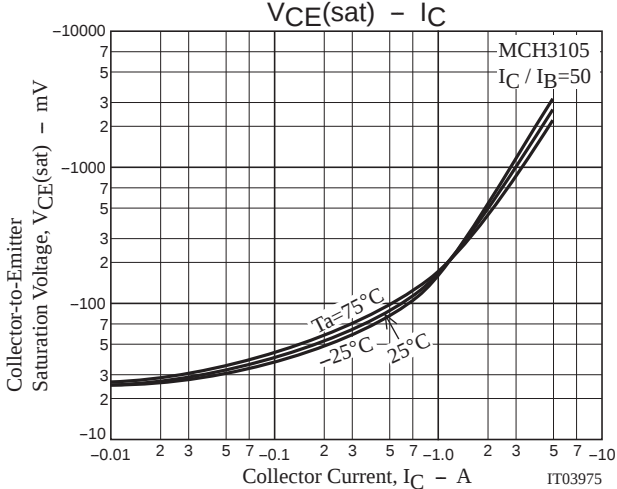
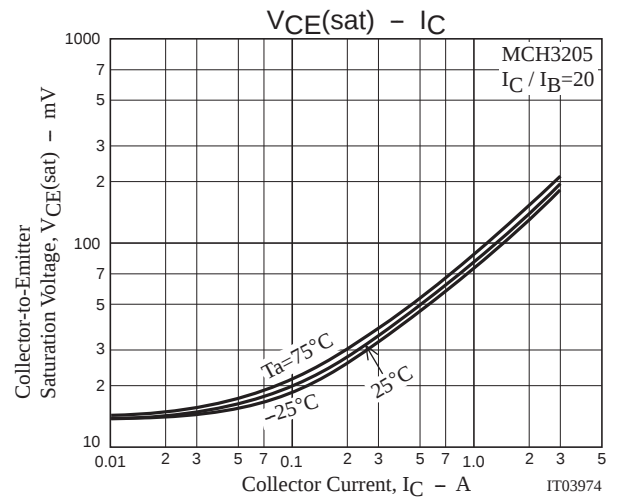
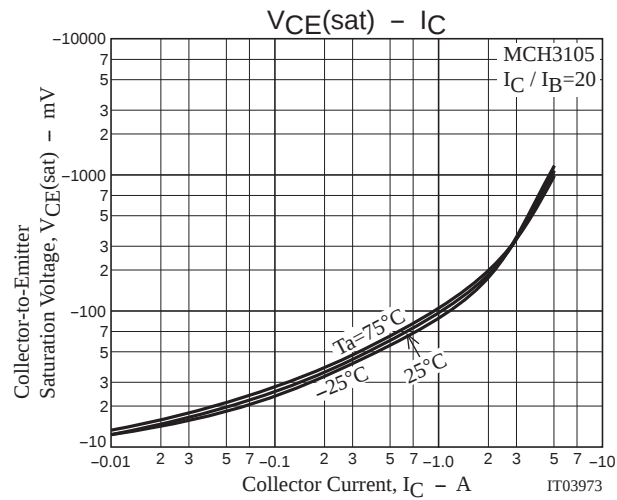
IC=10IB1= -10IB2=1A
(For PNP, the polarity is reversed.)

Ordering Information

Device	Package	Shipping	memo
MCH3105-TL-E	MCPH3	3,000pcs./reel	Pb Free
MCH3205-TL-E	MCPH3	3,000pcs./reel	

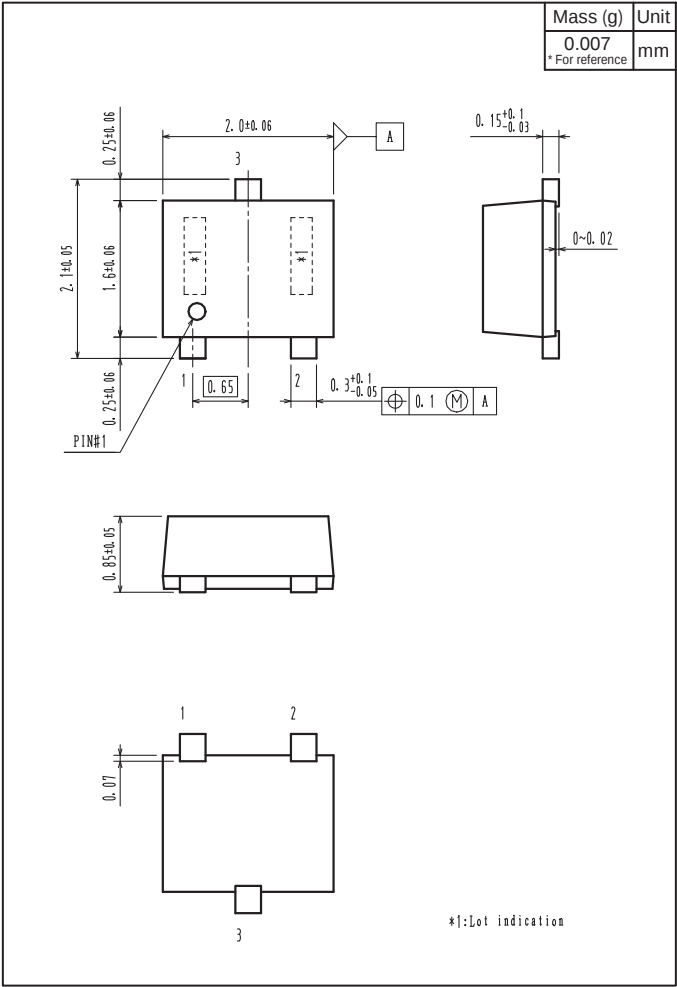




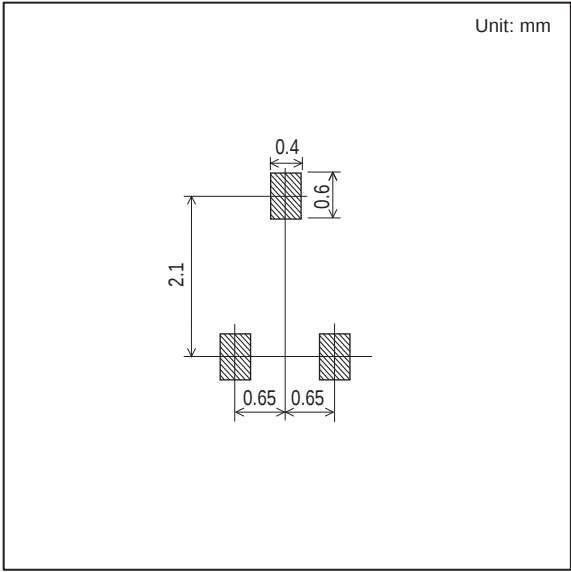


Outline Drawing

MCH3105-TL-E, MCH3205-TL-E



Land Pattern Example



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