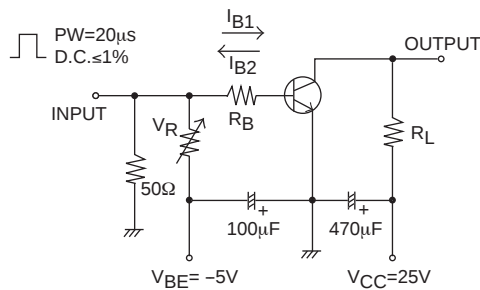


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Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector Cutoff Current	I_{CBO}	$V_{CB}=(-)40V, I_E=0A$			(-) 1	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB}=(-)4V, I_C=0A$			(-) 1	μA
DC Current Gain	h_{FE}	$V_{CE}=(-)2V, I_C=(-)100mA$	200		560	
Gain-Bandwidth Product	f_T	$V_{CE}=(-)10V, I_C=(-)300mA$		420		MHz
Output Capacitance	C_{ob}	$V_{CB}=(-)10V, f=1MHz$		(16) 8		pF
Collector-to-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=(-)1A, I_B=(-)50mA$		(-165) 130	(-330) 260	mV
Base-to-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=(-)1A, I_B=(-)50mA$		(-) 0.9	(-) 1.2	V
Collector-to-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C=(-)10\mu A, I_E=0A$	(-50) 80			V
Collector-to-Emitter Breakdown Voltage	$V_{(BR)CES}$	$I_C=(-)100\mu A, R_{BE}=0A$	(-50) 80			V
	$V_{(BR)CEO}$	$I_C=(-)1mA, R_{BE}=\infty$	(-) 50			V
Emitter-to-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=(-)10\mu A, I_C=0A$	(-) 6			V
Turn-On Time	t_{on}	See specified Test Circuit.		(35) 35		ns
Storage Time	t_{stg}			(200) 330		ns
Fall Time	t_f			(24) 40		ns

Switching Time Test Circuit

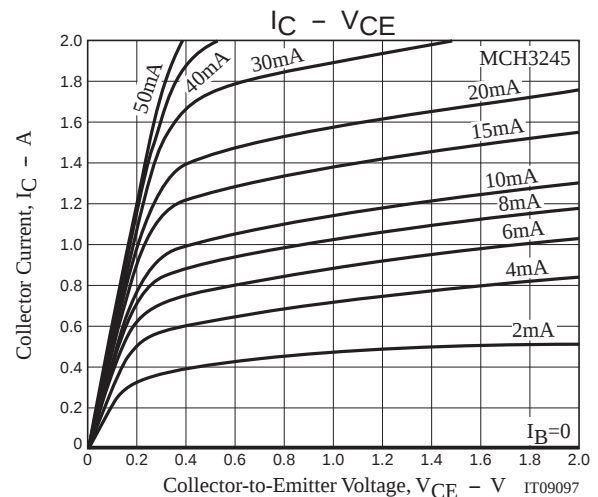
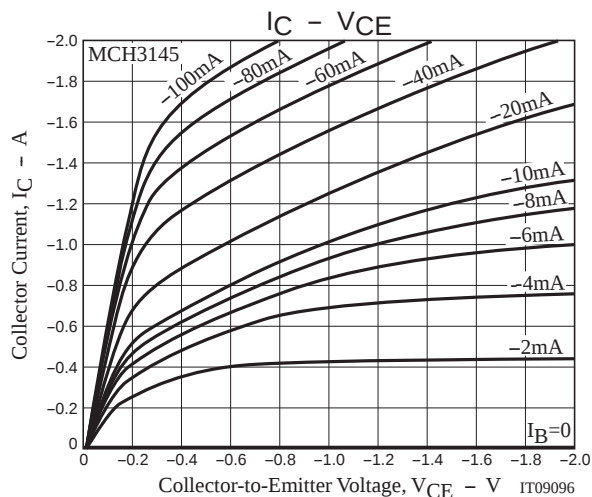


$$I_C=10I_{B1}=-10I_{B2}=0.7A$$

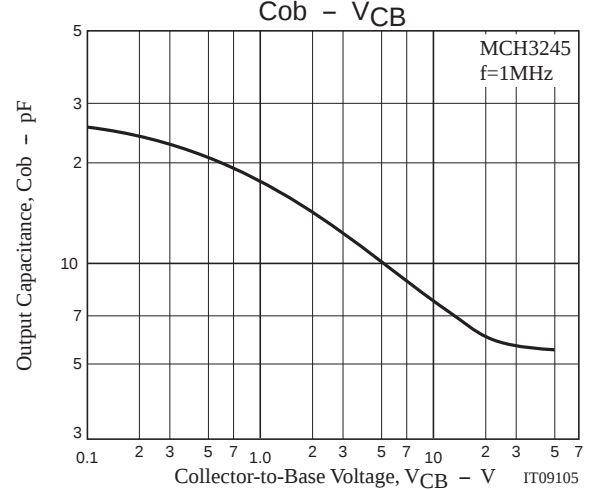
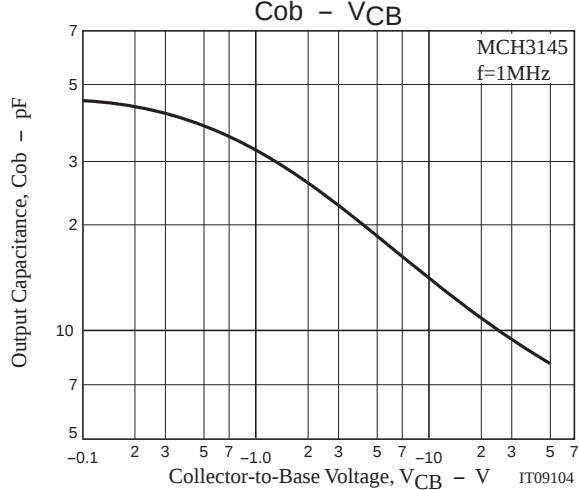
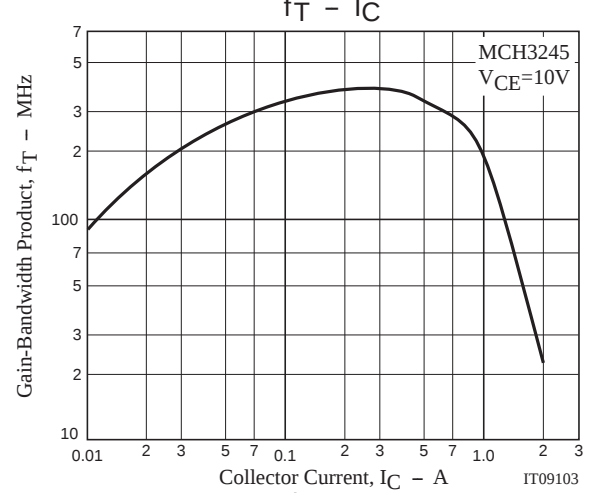
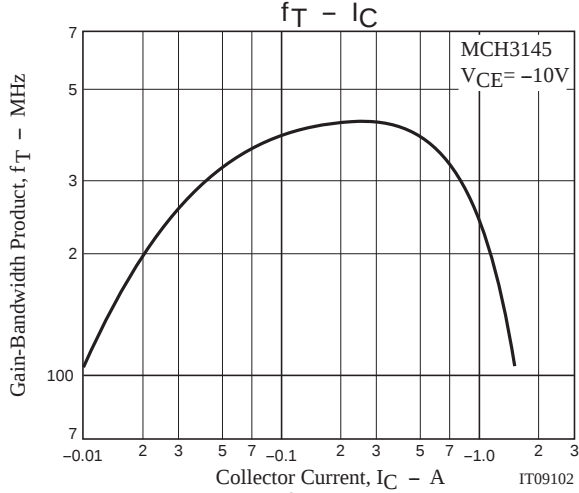
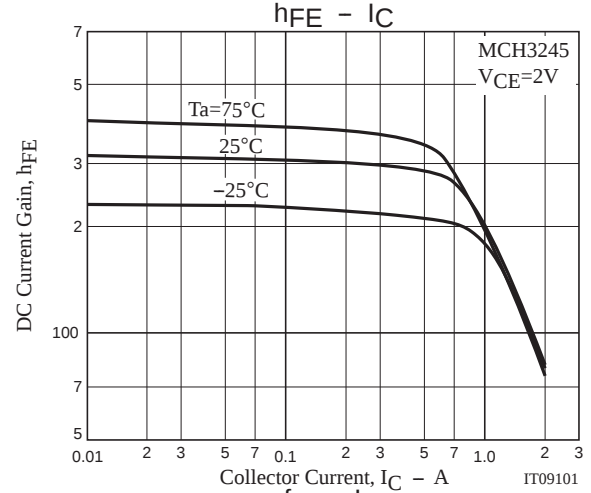
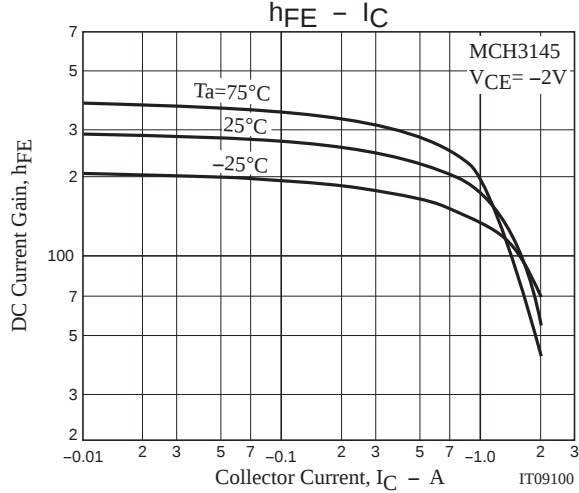
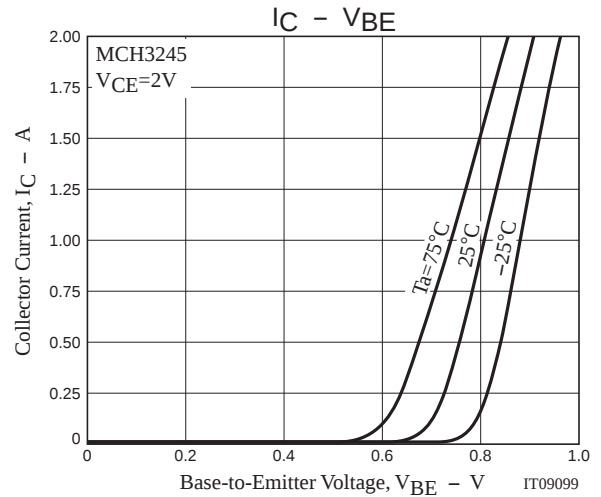
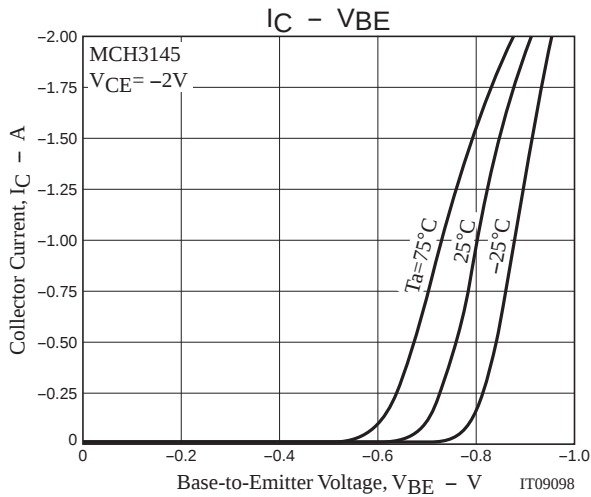
For PNP, the polarity is reversed.

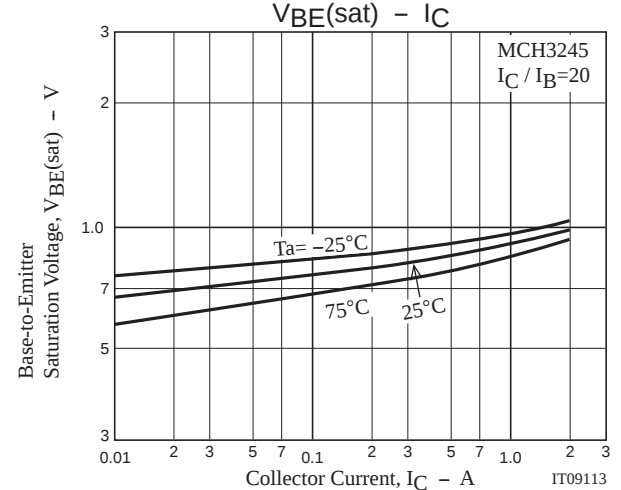
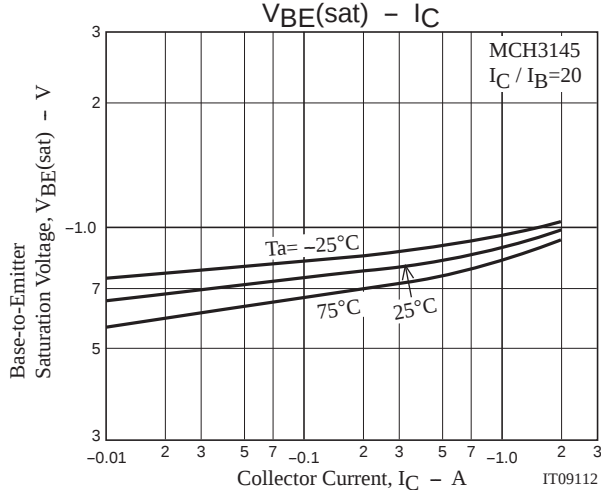
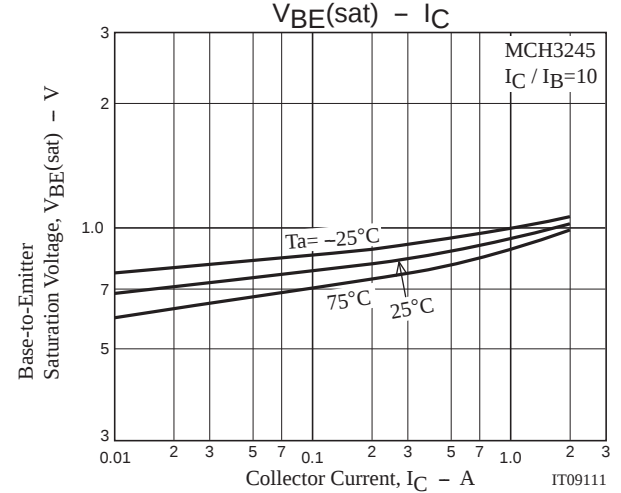
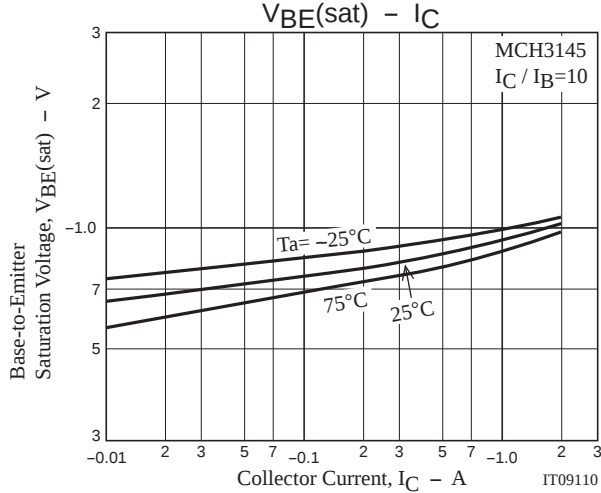
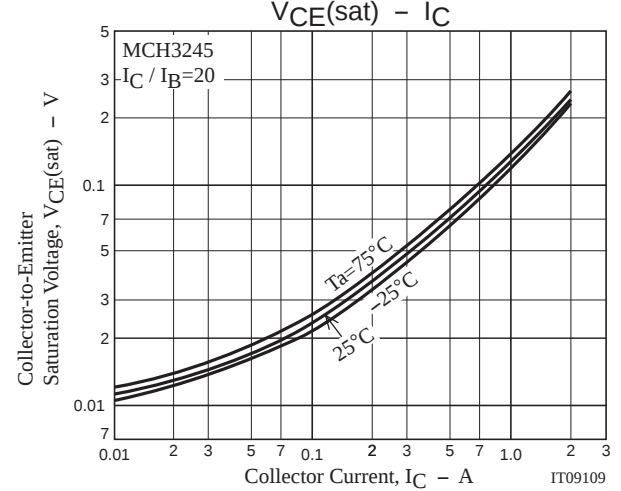
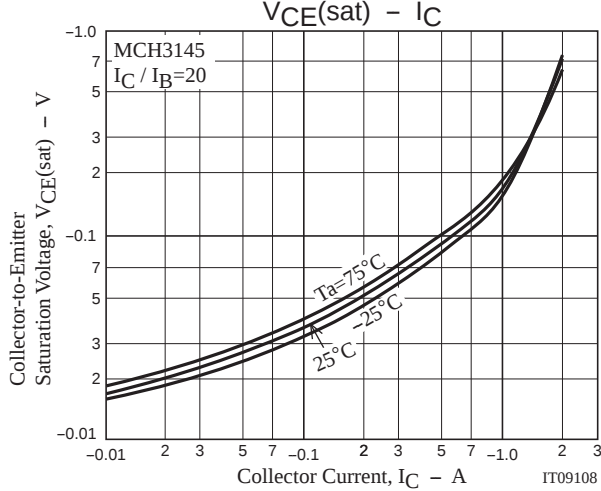
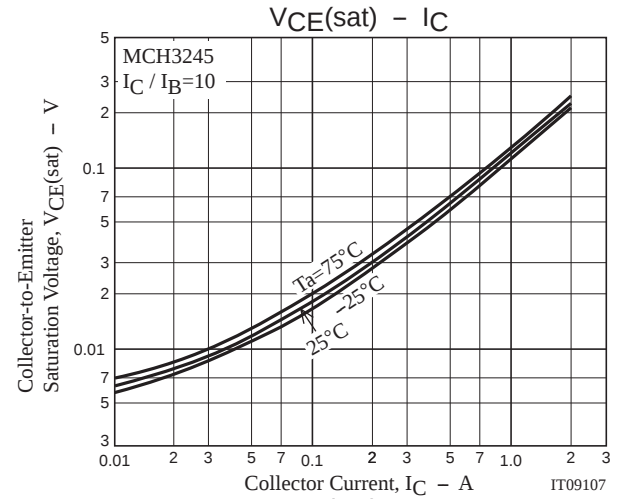
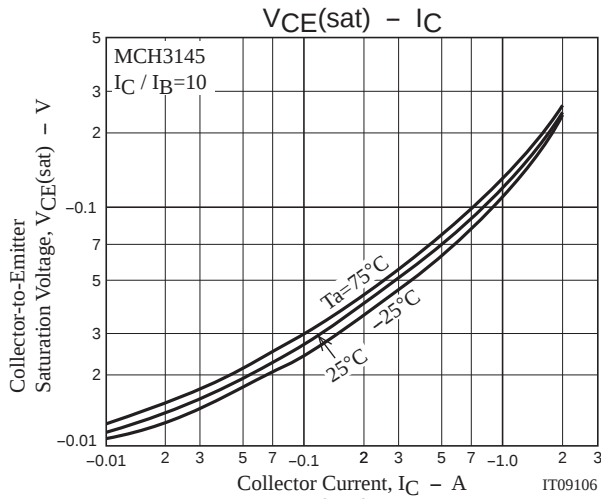
Ordering Information

Device	Package	Shipping	memo
MCH3145-TL-E	MCPH3	3,000pcs./reel	Pb Free
MCH3245-TL-E	MCPH3	3,000pcs./reel	

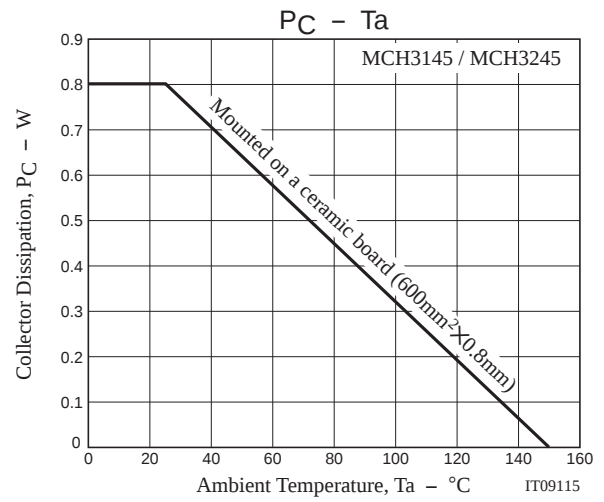
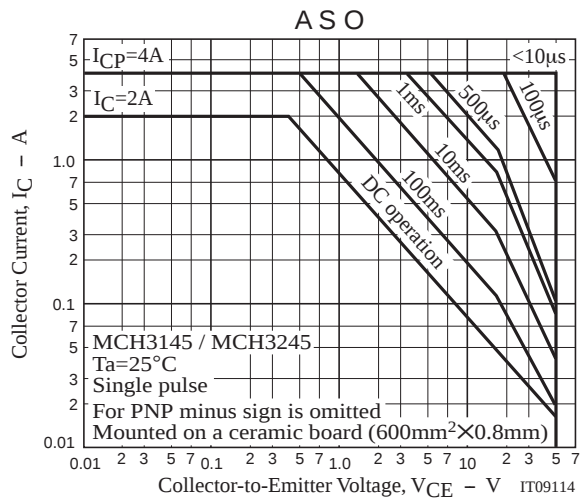


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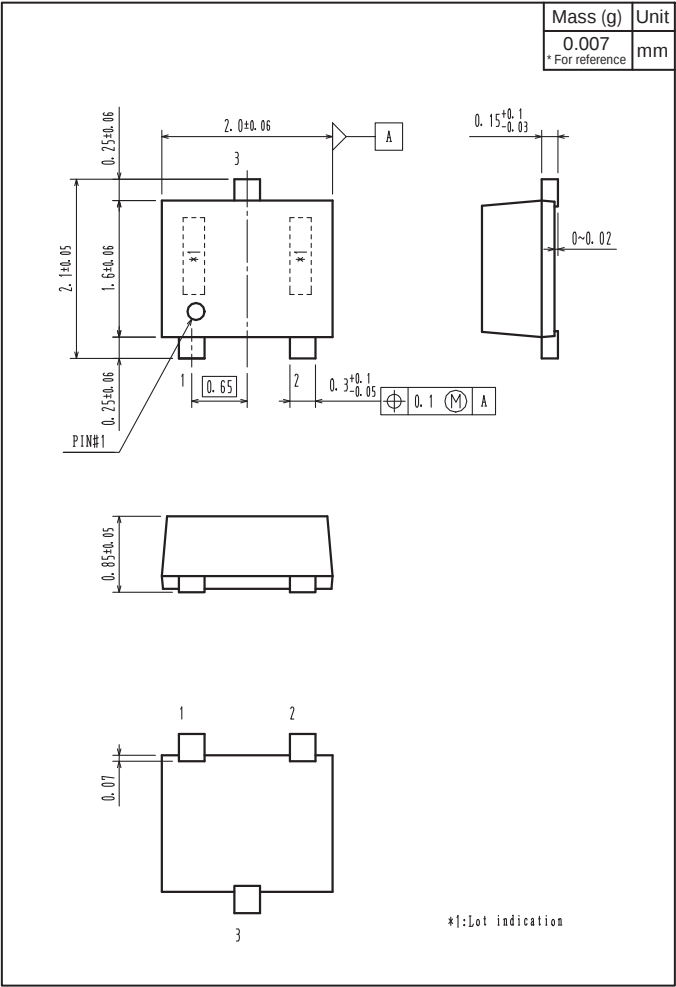


MCH3145 / MCH3245

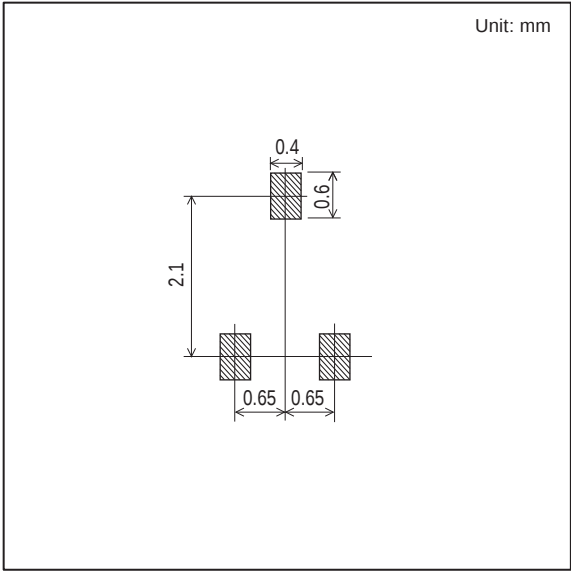


Outline Drawing

MCH3145-TL-E, MCH3245-TL-E



Land Pattern Example



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