

PCP1103

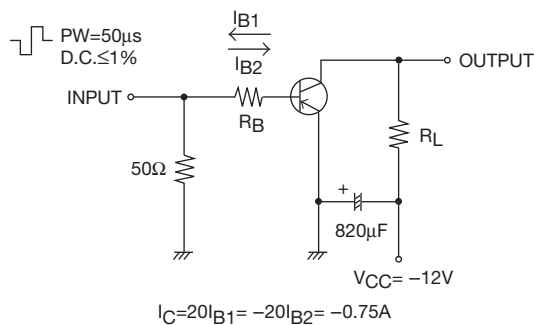
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Parameter	Symbol	Conditions	Ratings	Unit
Base Current	I_B		-300	mA
Collector Dissipation	P_C	When mounted on ceramic substrate (450mm ² ×0.8mm) $T_c=25^{\circ}\text{C}$	1.3	W
Junction Temperature	T_j		150	$^{\circ}\text{C}$
Storage Temperature	T_{stg}		-55 to +150	$^{\circ}\text{C}$

Electrical Characteristics at $T_a=25^{\circ}\text{C}$

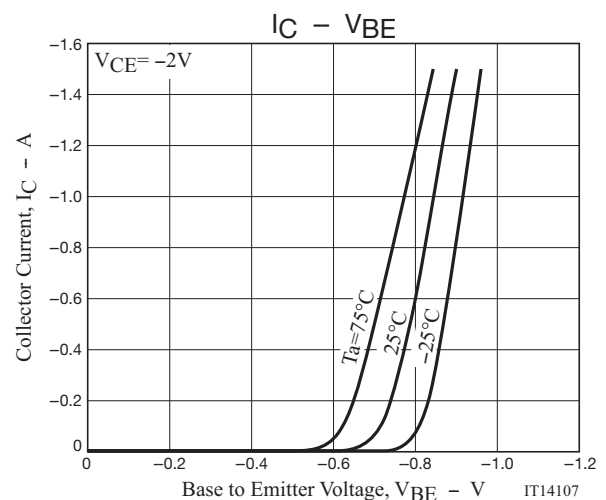
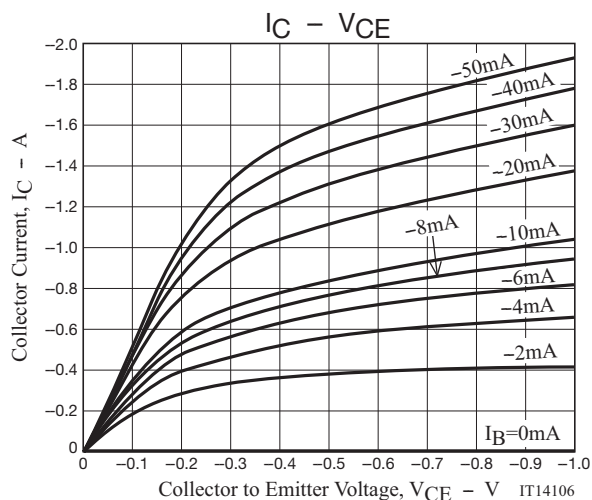
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector Cutoff Current	I_{CBO}	$V_{CB} = -30\text{V}, I_E = 0\text{A}$			-0.1	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = -4\text{V}, I_C = 0\text{A}$			-0.1	μA
DC Current Gain	h_{FE}	$V_{CE} = -2\text{V}, I_C = -100\text{mA}$	200		560	
Gain-Bandwidth Product	f_T	$V_{CE} = -10\text{V}, I_C = -300\text{mA}$		450		MHz
Output Capacitance	C_{ob}	$V_{CB} = -10\text{V}, f = 1\text{MHz}$		9		pF
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -0.75\text{A}, I_B = -15\text{mA}$		-250	-375	mV
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = -0.75\text{A}, I_B = -15\text{mA}$		-0.85	-1.2	V
Collector to Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C = -10\mu\text{A}, I_E = 0\text{A}$	-30			V
Collector to Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = -1\text{mA}, R_{BE} = \infty$	-30			V
Emitter to Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E = -10\mu\text{A}, I_C = 0\text{A}$	-5			V
Turn-On Time	t_{on}	See specified Test Circuit.		35		ns
Storage Time	t_{stg}			115		ns
Fall Time	t_f			30		ns

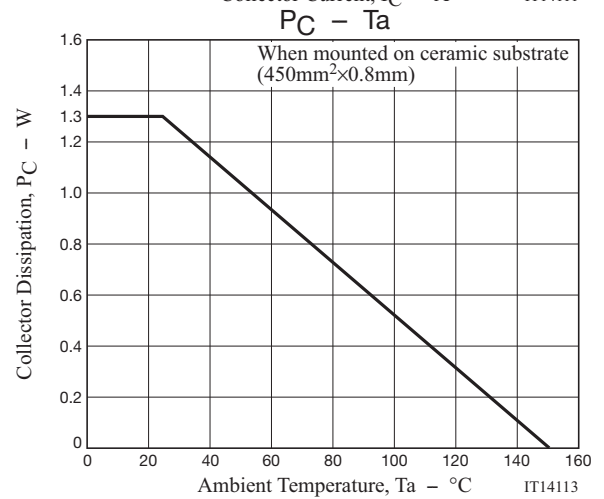
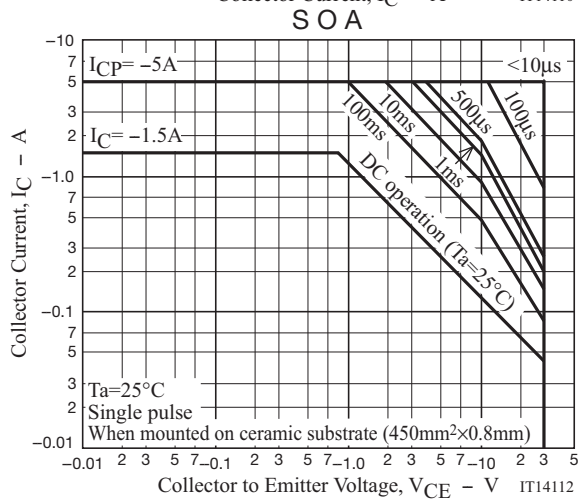
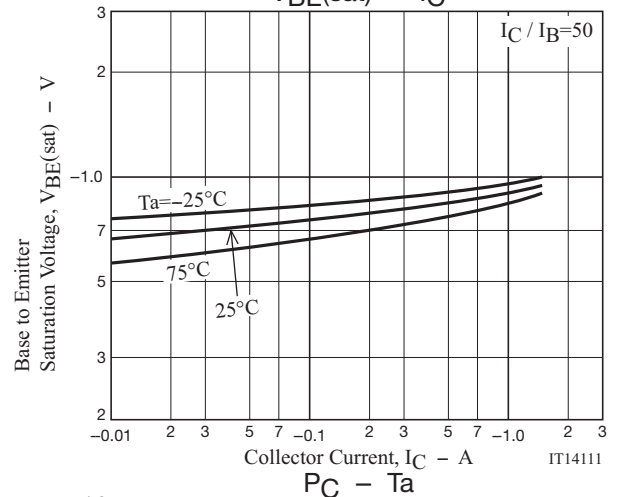
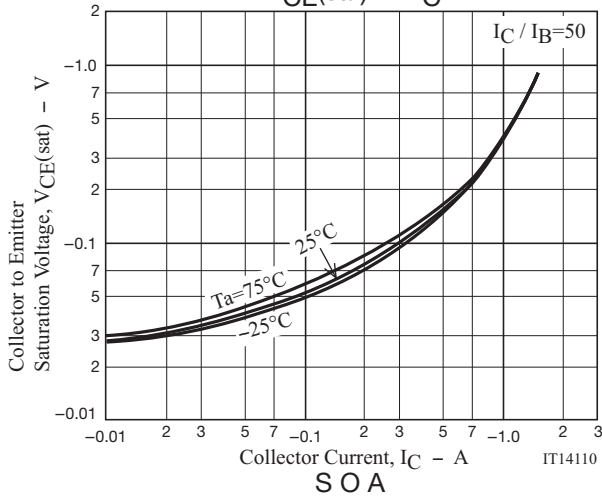
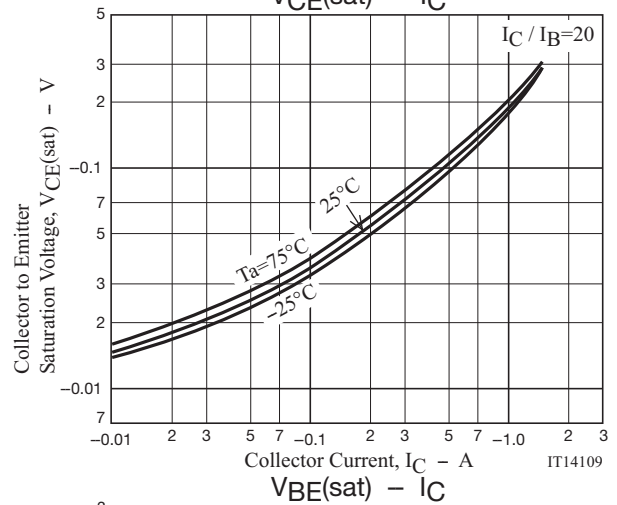
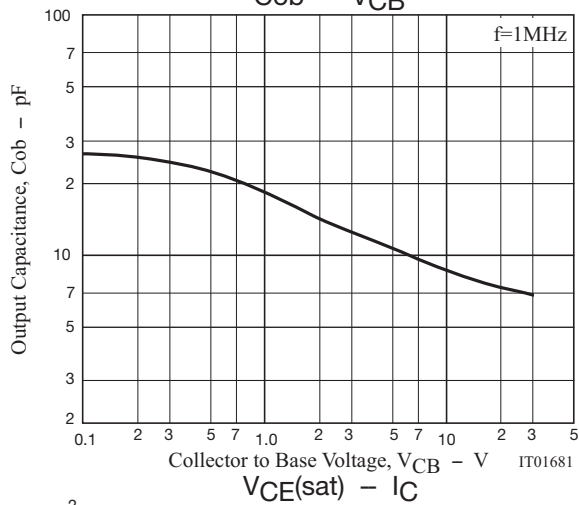
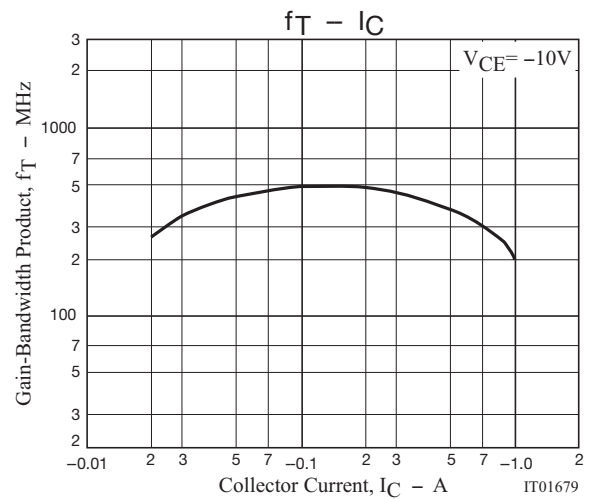
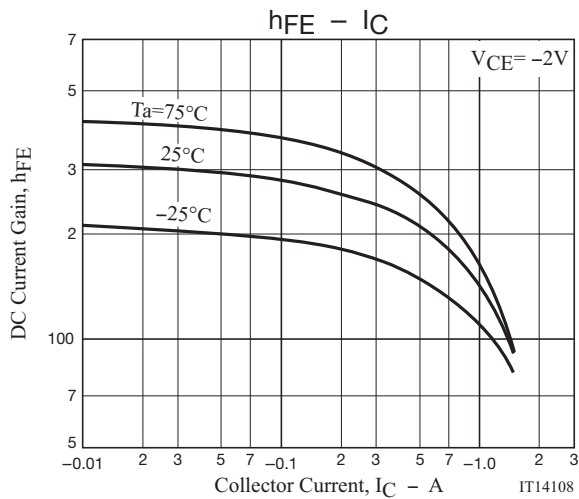
Switching Time Test Circuit

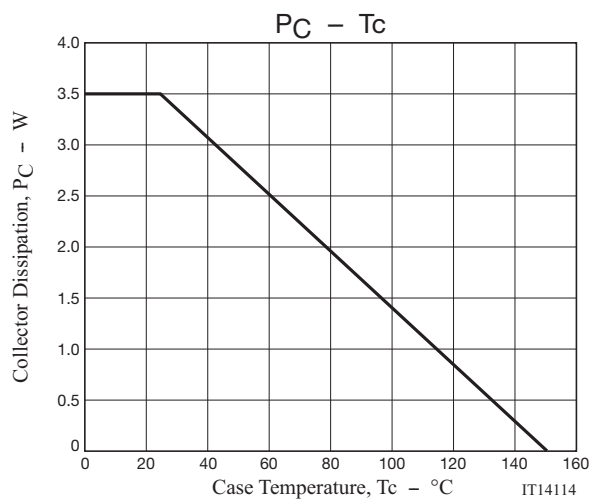


Ordering Information

Device	Package	Shipping	memo
PCP1103-TD-H	PCP	1,000pcs./reel	Pb Free and Halogen Free

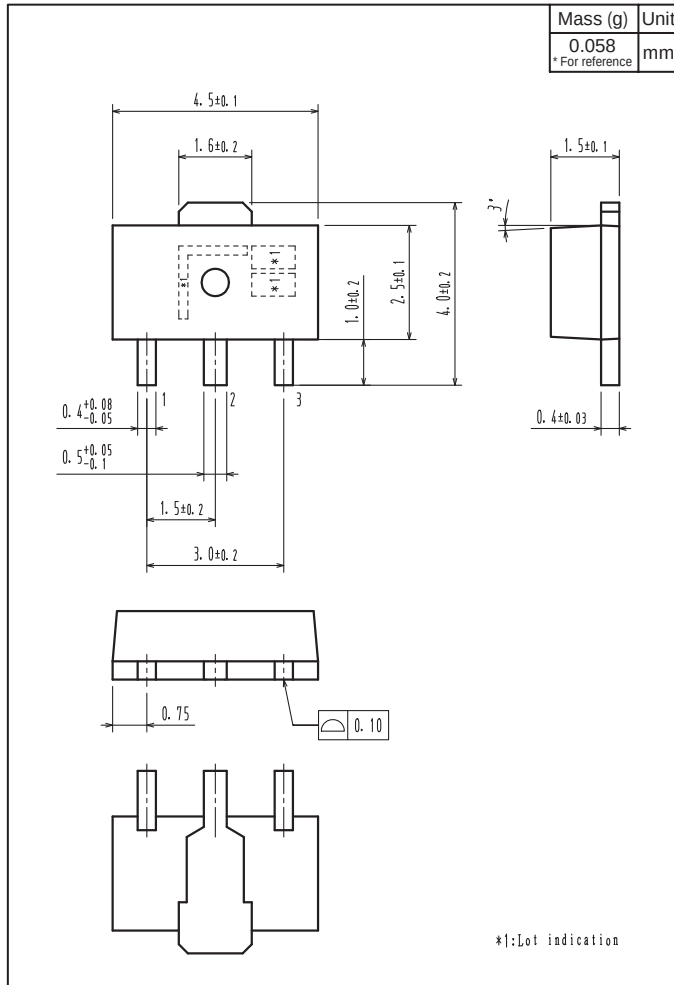




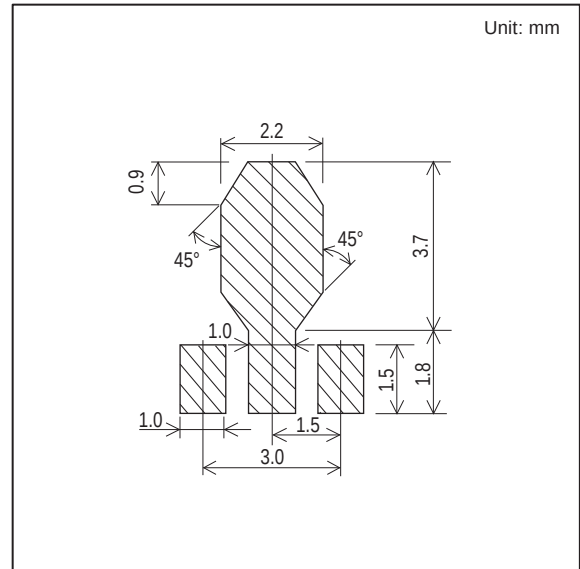


Outline Drawing

PCP1103-TD-H



Land Pattern Example



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