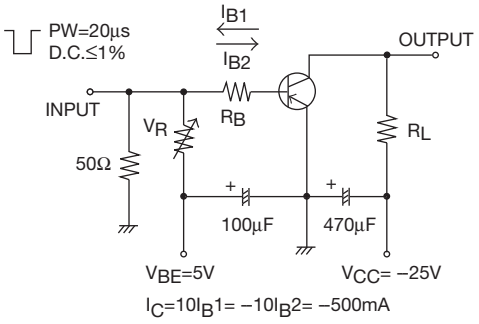
Electrical Characteristics at Ta=25°C

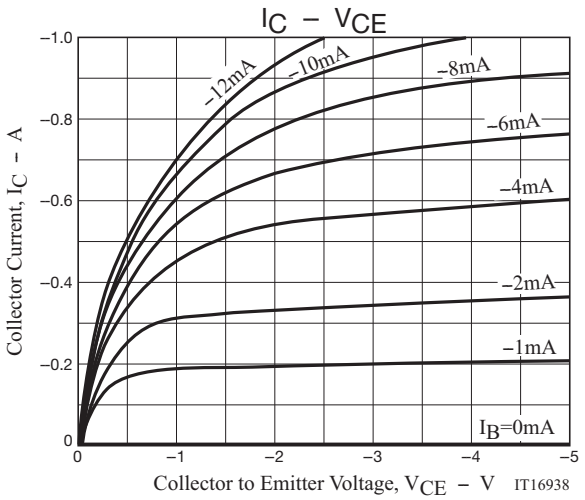
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector Cutoff Current	I_{CBO}	V_{CB}= −50V, I_E=0A			−100	nA
Emitter Cutoff Current	I_{EBO}	V_{EB}= −4V, I_C=0A			−100	nA
DC Current Gain	$h_{FE}1$	V_{CE}= −2V, I_C= −100mA	200		560	
	$h_{FE}2$	V_{CE}= −2V, I_C= −1A	30			
Gain-Bandwidth Product	f_T	V_{CE}= −10V, I_C= −50mA		150		MHz
Output Capacitance	Cob	V_{CB}= −10V, f=1MHz		12		pF
Collector to Emitter Saturation Voltage	V_{CE}(sat)	I_C= −500mA, I_B= −50mA		−180	−500	mV
Base to Emitter Saturation Voltage	V_{BE}(sat)	I_C= −500mA, I_B= −50mA		−0.9	−1.2	V
Collector to Base Breakdown Voltage	$V_{(BR)CBO}$	I_C= −10μA, I_E=0A	−60			V
Collector to Emitter Breakdown Voltage	$V_{(BR)CEO}$	I_C= −1mA, R_{BE}=∞	−50			V
Emitter to Base Breakdown Voltage	$V_{(BR)EBO}$	I_E= −10μA, I_C=0A	−5			V
Turn-ON Time	t_{on}	See specified Test Circuit.		40		ns
Storage Time	t_{stg}			300		ns
Fall Time	t_f			30		ns

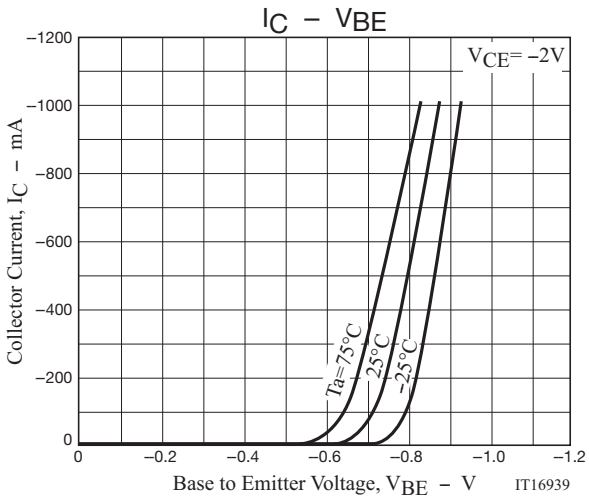
Switching Time Test Circuit

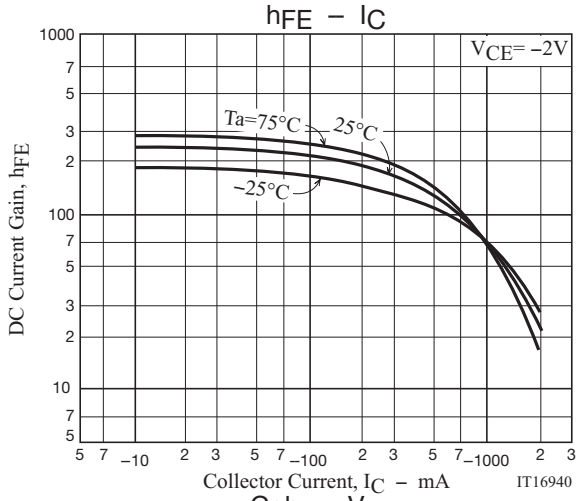


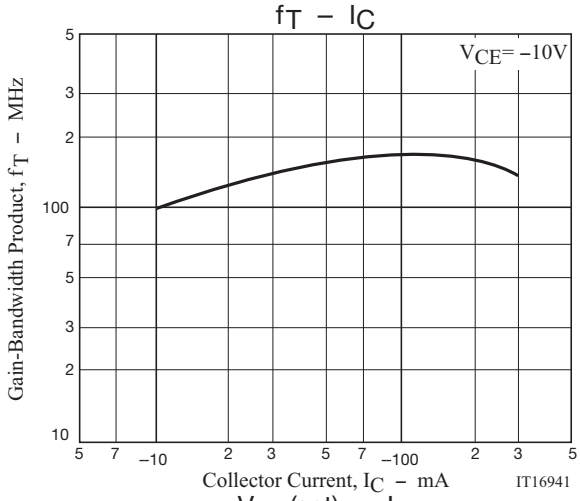
Ordering Information

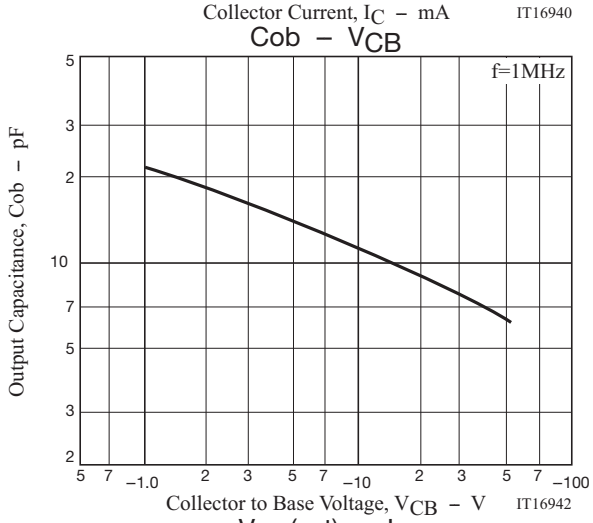
Device	Package	Shipping	memo
CPH6102-TL-E	CPH6	3,000pcs./reel	Pb Free

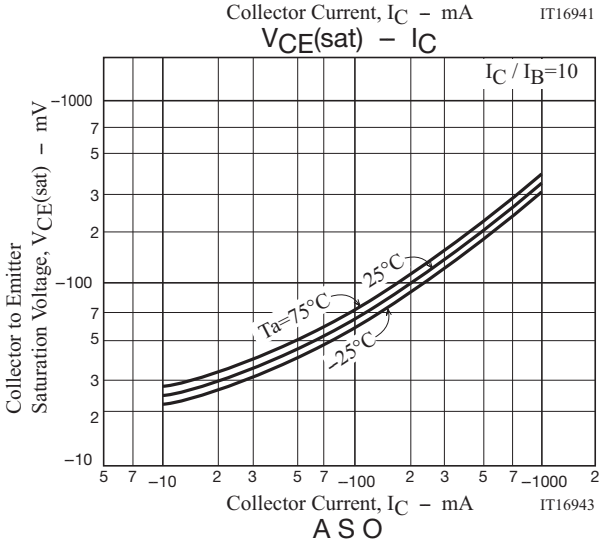


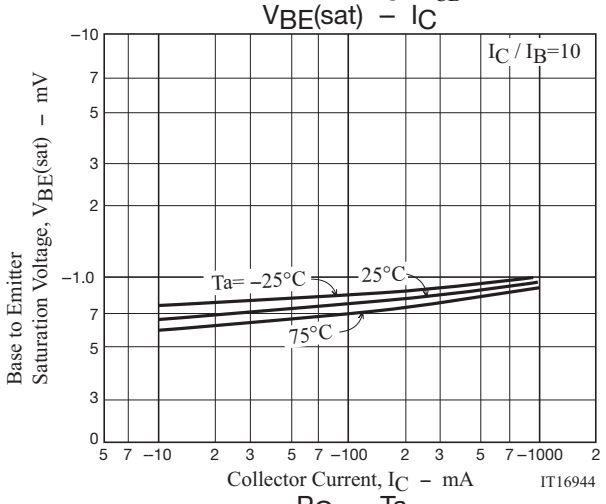


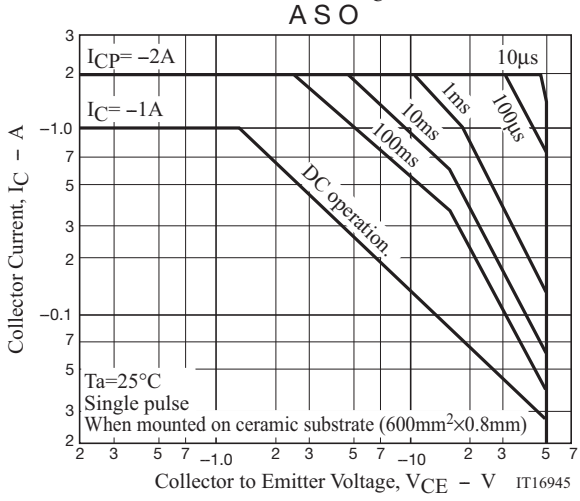


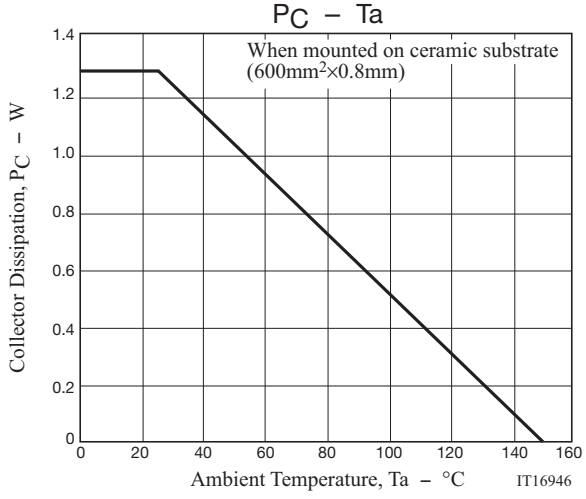






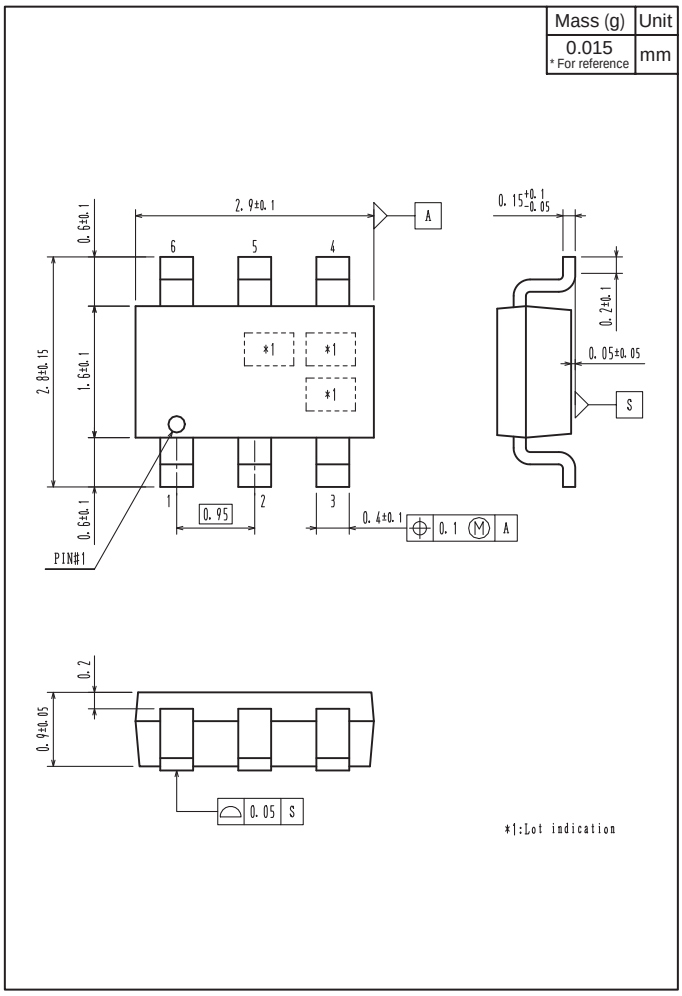






Outline Drawing

CPH6102-TL-E



Land Pattern Example