

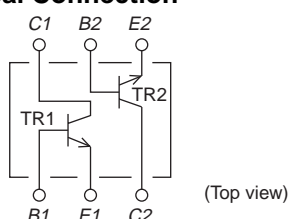
**CPH6517**

Low-Frequency General-Purpose Amplifier Applications

Features

- Composite type with 2 transistors contained in the CPH package currently in use, improving the mounting efficiency greatly.
- The CPH6517 is formed with two chips, being equivalent to the 2SC4555, placed in one package.
- Low collector to emitter saturation voltage.
- Excellent in thermal equilibrium and pair capability.

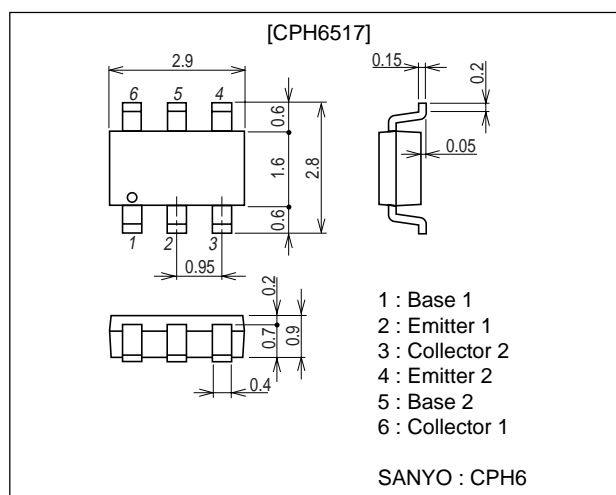
Electrical Connection



Package Dimensions

unit : mm

2212



Specifications

Absolute Maximum Ratings at $T_a=25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V_{CB0}		20	V
Collector-to-Emitter Voltage	V_{CEO}		15	V
Emitter-to-Base Voltage	V_{EBO}		5	V
Collector Current	I_C		500	mA
Collector Current(Pulse)	I_{CP}		1	A
Base Current	I_B		100	mA
Collector Dissipation	P_C	1unit	350	mW
Total Dissipation	P_T		500	mW
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}	$V_{CB}=15\text{V}, I_E=0$			0.1	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB}=4\text{V}, I_C=0$			0.1	μA

Note : The specifications shown above are for each individual transistor.

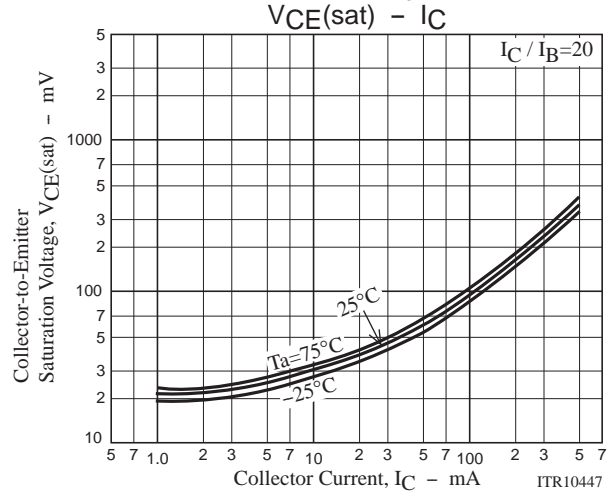
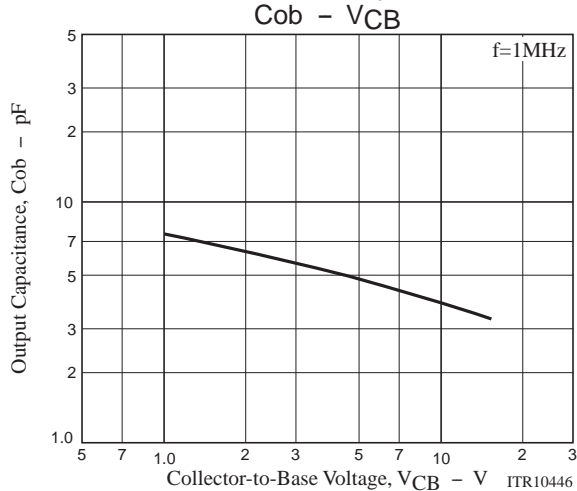
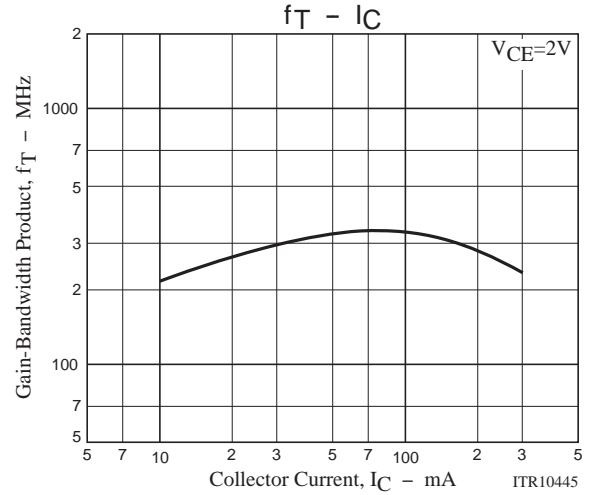
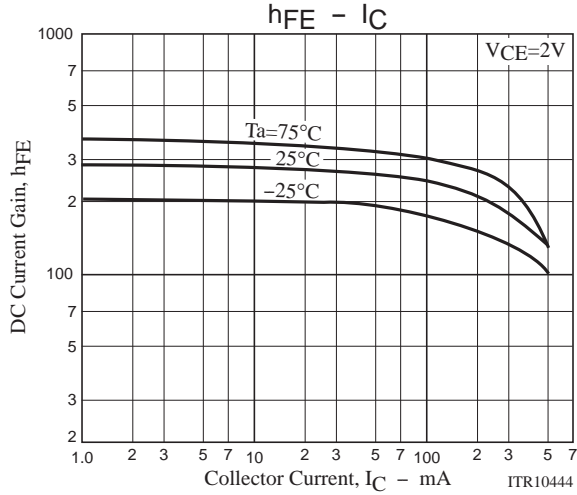
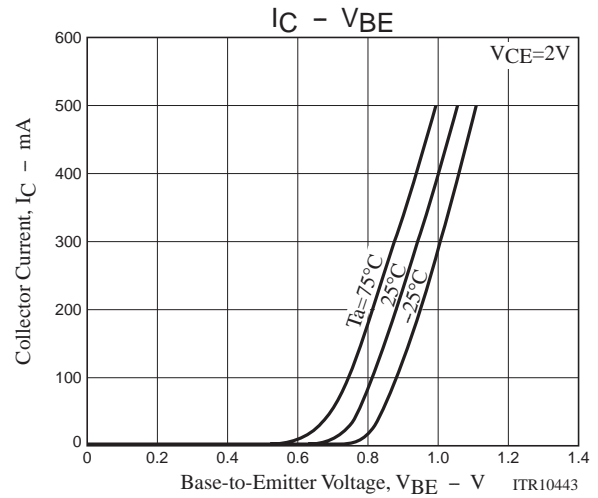
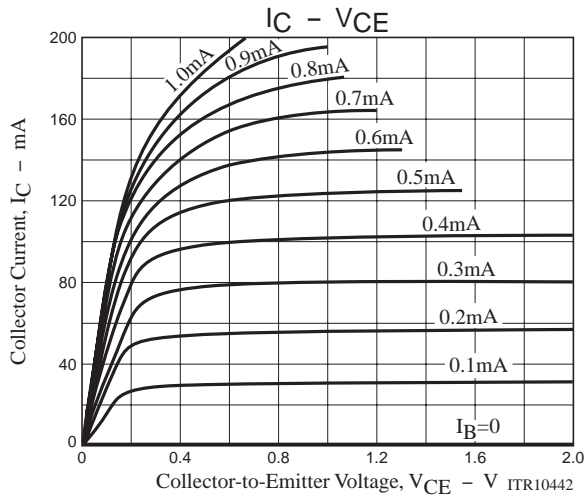
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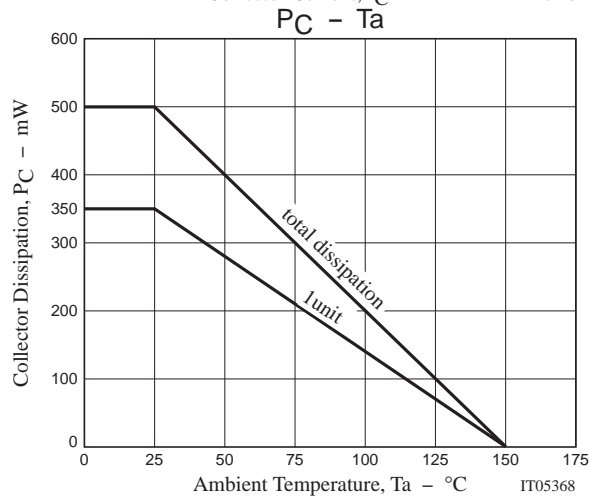
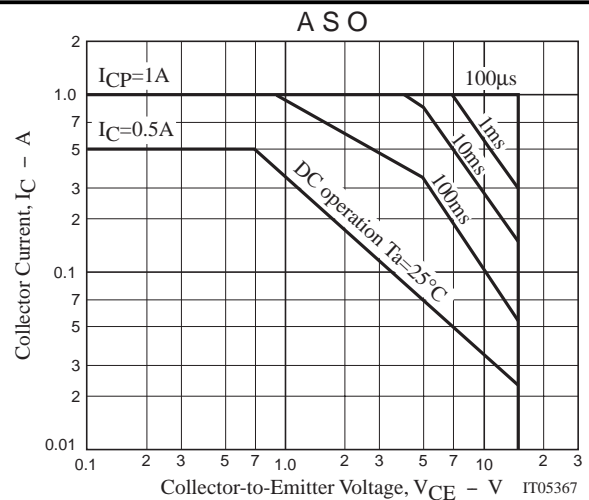
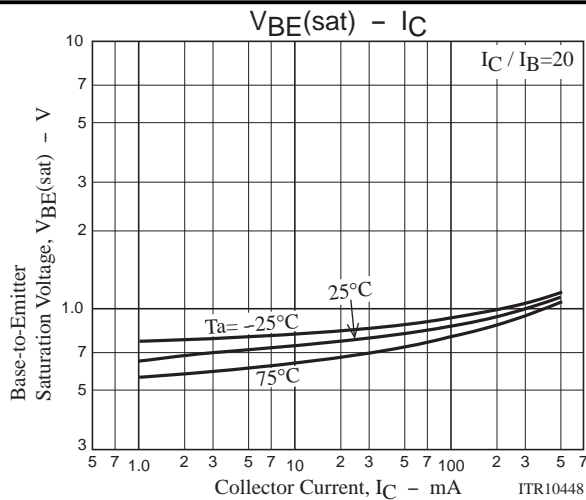
Marking : 3B

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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
DC Current Gain	h_{FE1}	$V_{CE}=2V, I_C=10mA$	160		560	
	h_{FE2}	$V_{CE}=2V, I_C=400mA$	80			
DC Current Gain Ratio	$h_{FE}(\text{Small / Large})$	$V_{CE}=2V, I_C=10mA$	0.8	0.98		
Gain-Bandwidth Product	f_T	$V_{CE}=2V, I_C=50mA$		300		MHz
Output Capacitance	C_{ob}	$V_{CB}=10V, f=1MHz$		4		pF
Collector-to-Emitter Saturation Voltage	$V_{CE(sat)1}$	$I_C=5mA, I_B=0.5mA$		15	30	mV
	$V_{CE(sat)2}$	$I_C=200mA, I_B=10mA$		160	300	mV
Base-to-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=200mA, I_B=10mA$		0.95	1.2	V
Collector-to-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C=10\mu A, I_E=0$	20			V
Collector-to-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=1mA, R_{BE}=\infty$	15			V
Emitter-to-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=10\mu A, I_C=0$	5			V





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