

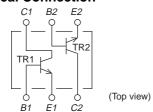
CPH6517

Low-Frequency General-Purpose Amplifier Applications

Features

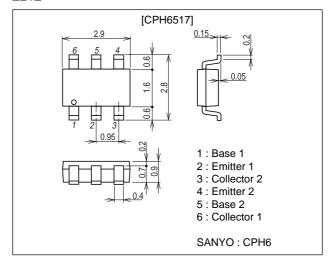
- · Composite type with 2 transistors contained in the CPH package currently in use, improving the mounting efficiency greatly.
- The CPH6517 is formed with two chips, being equivalent to the 2SC4555, placed in one package.
- · Low collector to emitter saturation voltage.
- · Excellent in thermal equilibrium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

Electrical Connection



Package Dimensions

unit: mm 2212



Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	VCBO		20	V
Collector-to-Emitter Voltage	VCEO		15	V
Emitter-to-Base Voltage	VEBO		5	V
Collector Current	IC		500	mA
Collector Current(Pulse)	ICP		1	Α
Base Current	IB		100	mA
Collector Dissipation	PC	1unit	350	mW
Total Dissipation	PT		500	mW
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
	Symbol		min	typ	max	Offic
Collector Cutoff Current	ICBO	VCB=15V, IE=0			0.1	μΑ
Emitter Cutoff Current	IFBO	VER=4V, IC=0			0.1	μA

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

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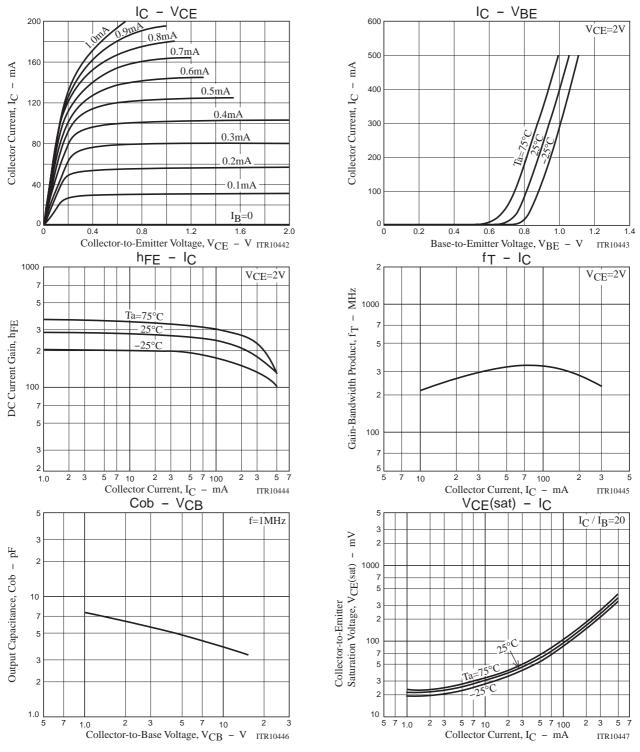
Marking: 3B

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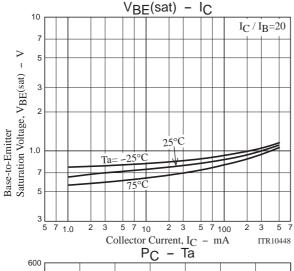
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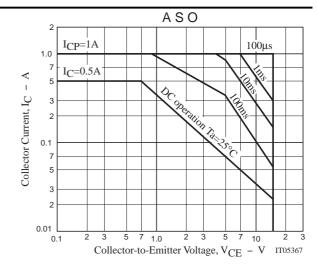
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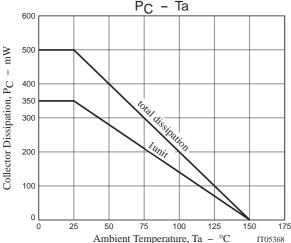
Parameter	Symbol	Conditions	Ratings			1.114
			min	typ	max	Unit
DC Current Gain	hFE1	V _{CE} =2V, I _C =10mA	160		560	
	hFE2	V _{CE} =2V, I _C =400mA	80			
DC Current Gain Ratio	hFE(Small / Large)	V _{CE} =2V, I _C =10mA	0.8	0.98		
Gain-Bandwidth Product	fT	V _{CE} =2V, I _C =50mA		300		MHz
Output Capacitance	Cob	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 =10μA, I _E =0	20			V
Collector-to-Emitter Breakdown Voltage	V(BR)CEO	IC=1mA, RBE=∞	15			V
Emitter-to-Base Breakdown Voltage	V(BR)EBO	I _E =10μA, I _C =0	5			V



CPH6517







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