

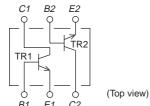
CPH6517

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

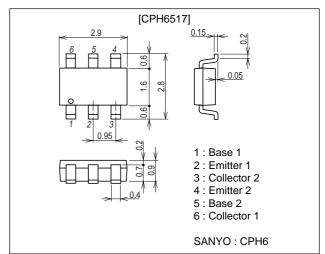


Specifications

Absolute Maximum Ratings at Ta=25°C

Package Dimensions

unit: mm 2212



Parameter Symbol Conditions Ratings Unit Collector-to-Base Voltage Vсво 20 Collector-to-Emitter Voltage **VCEO** V Emitter-to-Base Voltage VEBO 5 V Collector Current IC 500 mΑ Collector Current(Pulse) 1 Α ICP Base Current 100 mΑ lΒ mW Collector Dissipation PC 1unit 350 Total Dissipation РТ 500 mW Junction Temperature Τj 150 ٥С Storage Temperature Tstg -55 to +150 °C

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Collector Cutoff Current	ICBO	VCB=15V, IE=0			0.1	μΑ
Emitter Cutoff Current	IFBO	V _{FB} =4V, I _C =0			0.1	μΑ

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

Marking: 3B

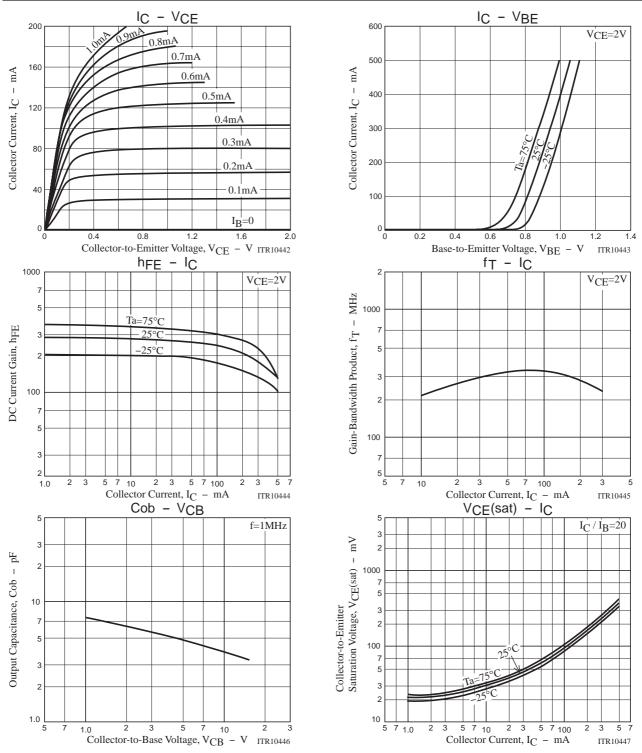
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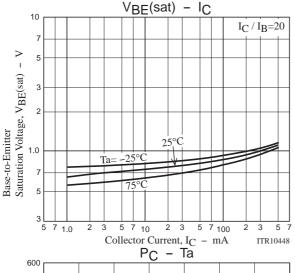
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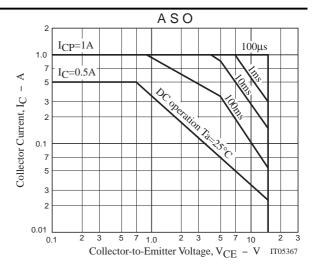
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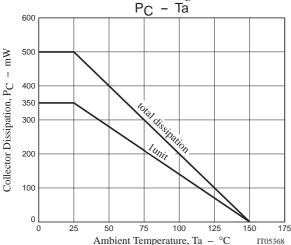
Parameter	Symbol	Conditions	Ratings			1.1-14
			min	typ	max	Unit
DC Current Gain	hFE1	V _{CE} =2V, I _C =10mA	160		560	
	hFE2	V _{CE} =2V, I _C =400mA	80			
DC Current Gain Ratio	hFE(Small / Large)	V _{CE} =2V, I _C =10mA	0.8	0.98		
Gain-Bandwidth Product	fT	V _{CE} =2V, I _C =50mA		300		MHz
Output Capacitance	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



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