

CPH6006

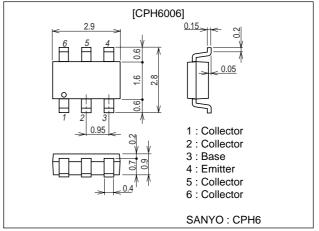
Video Output Driver, High-Frequency Amplifier Applications

Features

- High f_T (f_T=2.2GHz typ).
- Large current (IC=300mA).
- · Adoption of FBET process.

Package Dimensions

unit : mm 2146A



Specifications

Absolute Maximum Ratings at Ta=25°C

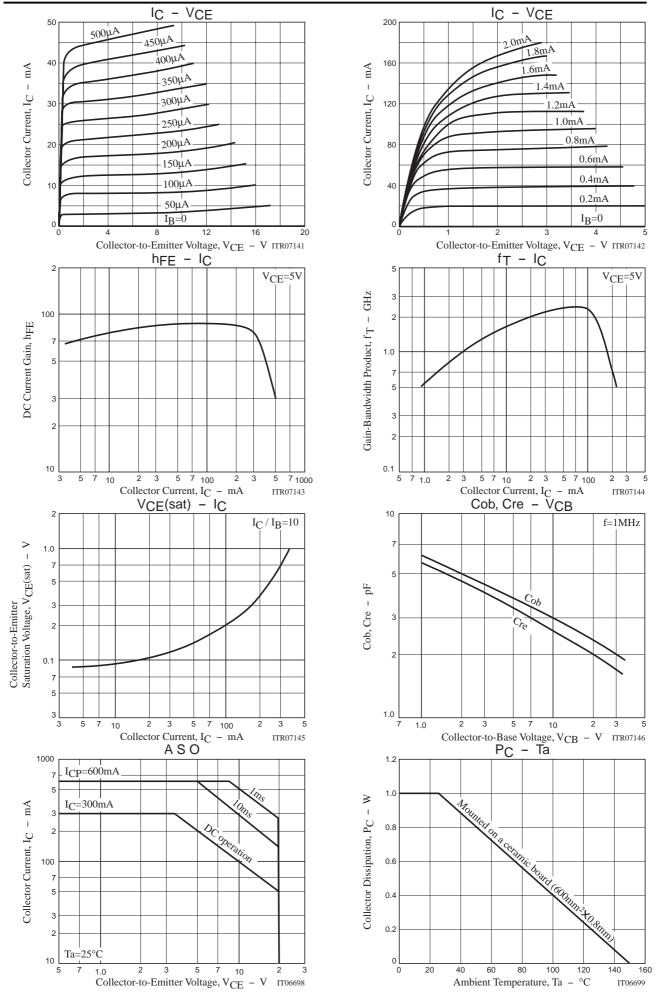
Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	VCBO		30	V
Collector-to-Emitter Voltage	VCEO		20	V
Emitter-to-Base Voltage	VEBO		3	V
Collector Current	IC		300	mA
Collector Current (Pulse)	ICP		600	mA
Collector Dissipation	PC	Mounted on a ceramic board (600mm ² X0.8mm)	1.0	W
Junction Temperature	Tj		150	°C
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=20V, IE=0			0.1	μΑ
Emitter Cutoff Current	IEBO	V _{EB} =2V, I _C =0			5.0	μΑ
DC Current Gain	hFE(1)	V _{CE} =5V, I _C =50mA	100		200	
	hFE(2)	VCE=5V, IC=300mA	20			
Gain-Bandwidth Product	fT	V _{CE} =5V, I _C =50mA		2.2		GHz
Output Capacitance	Cob	V _{CB} =10V, f=1MHz		2.9		pF
Reverse Transfer Capacitance	Cre	V _{CB} =10V, f=1MHz		2.6		pF
Collector-to-Emitter Saturation Voltage	V _{CE} (sat)	I _C =100mA, I _B =10mA		0.15	0.5	V
Base-to-Emitter Saturation Voltage	V _{BE} (sat)	IC=100mA, IB=10mA		0.9	1.2	V

Marking: GF

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