

High-Definition CRT Display, Video Output Applications

Use

· Color TV chroma output and high breakdown voltage driver.

Features

- · High breakdown voltage : V_{CEO}≥200V.
- · Small reverse transfer capacitance and excellent high frequency characteristic
 - $: C_{re}=1.2pF (NPN), 1.7pF (PNP).$
- · Adoption of FBET process.

(): 2SA1370

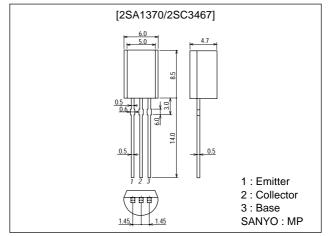
Specifications

Absolute Maximum Ratings at Ta = 25°C

Package Dimensions

unit:mm

2006B



Parameter	Symbol	Conditions Rating		Unit
Collector-to-Base Voltage	V _{CBO}		(-)200	V
Collector-to-Emitter Voltage	VCEO		(-)200	V
Emitter-to-Base Voltage	V _{EBO}		(-)5	V
Collector Current	IC		(–)100	mA
Collector Current (Pulse)	ICP		(–)200	mA
Collector Dissipation	PC		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	Unit
Collector Cutoff Current	I _{CBO}	V _{CB} =(-)150, I _E =0			(-)0.1	μΑ
Emitter Cutoff Current	I _{EBO}	V _{EB} =(-)4V, I _C =0			(-)0.1	μΑ
DC Current Gain	hFE	V _{CE} =(-)10V, I _C =10mA	40*		320*	
Gain-Bandwidth Product	fT	V _{CE} =(-)30V, I _C =(-)10mA		150		MHz
Collector-to-Emitter Saturation Voltage	V _{CE(sat)}	I _C =(-)20mA, I _B =(-)2mA			(-)0.6	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =(-)20mA, I _B =(-)2mA			(-)1.0	V

 \ast : The 2SA1370/2SC3467 are classified by 10mA h_{FE} as follows :

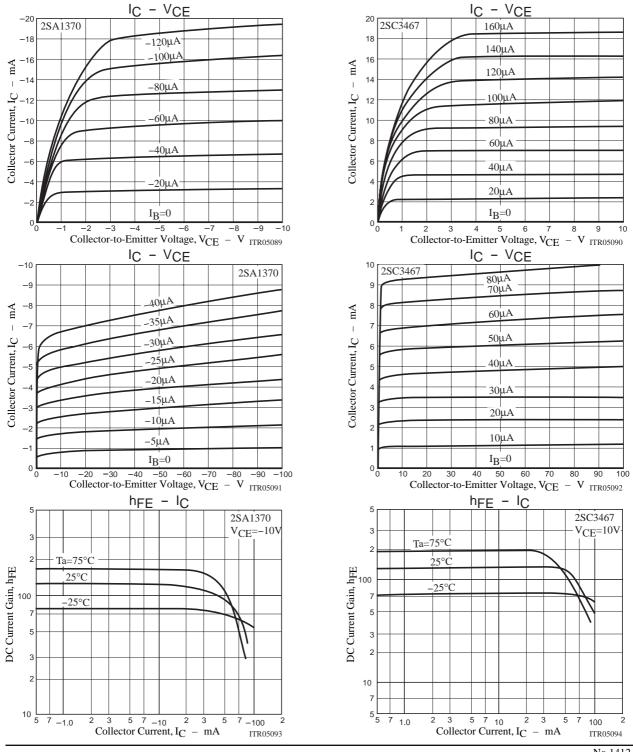
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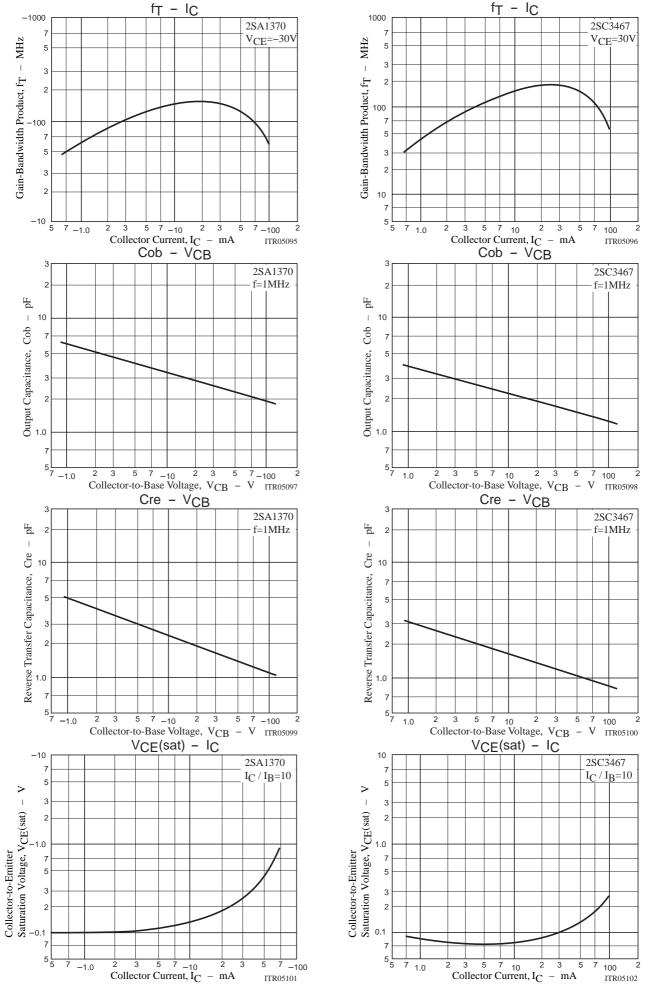
Rank	С	D	E	F
hFE	40 to 80	60 to 120	100 to 200	160 to 320

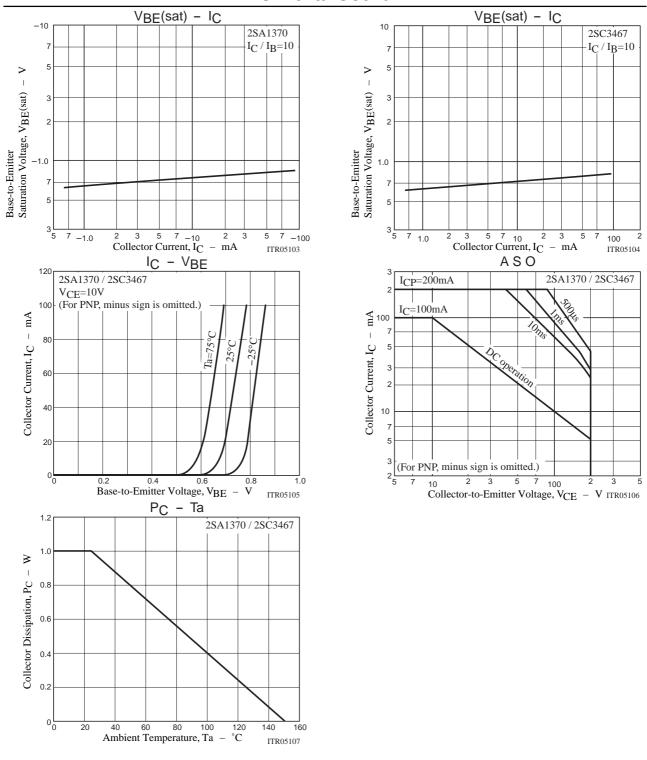
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Collector-to-Base Breakdown Voltage	V(BR)CBO	I _C =(-)10μA, I _E =0	(-)200			V
Collector-to-Emitter Breakdown Voltage	V _(BR) CEO	I _C =(–)1mA, R _{BE} =∞	(-)200			V
Emitter-to-Base Breakdown Votage	V _{(BR)EBO}	I _E =(-)10μA, I _C =0	(-)5			V
Output Capacitance	C _{ob}	V _{CB} =(-)30V, f=1MHz		1.7		pF
				(2.6)		pF
Reverse Transfer Capacitance	C _{re}	V _{CB} =(-)30V, f=1MHz		1.2		pF
				(1.7)		pF







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