

## 2SA1370/2SC3467

# High-Definition CRT Display, Video Output Applications

**Package Dimensions** 

unit:mm

#### Use

· Color TV chroma output and high breakdown voltage driver.

## **Features**

- · High breakdown voltage : V<sub>CEO</sub>≥200V.
- · Small reverse transfer capacitance and excellent high frequency characteristic
  - : C<sub>re</sub>=1.2pF (NPN), 1.7pF (PNP).
- · Adoption of FBET process.

(): 2SA1370

## **Specifications**

## Absolute Maximum Ratings at Ta = 25°C

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[2	2SA1370/2SC3467]	]
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0.0		9 + E
1 1 2 2 5	14.0	-4.7-
8.5	14.0	r  ~~4,/~~=
	EIAJ : SC-51	B : Base

SANYO: MP

C : Collector E : Emitter

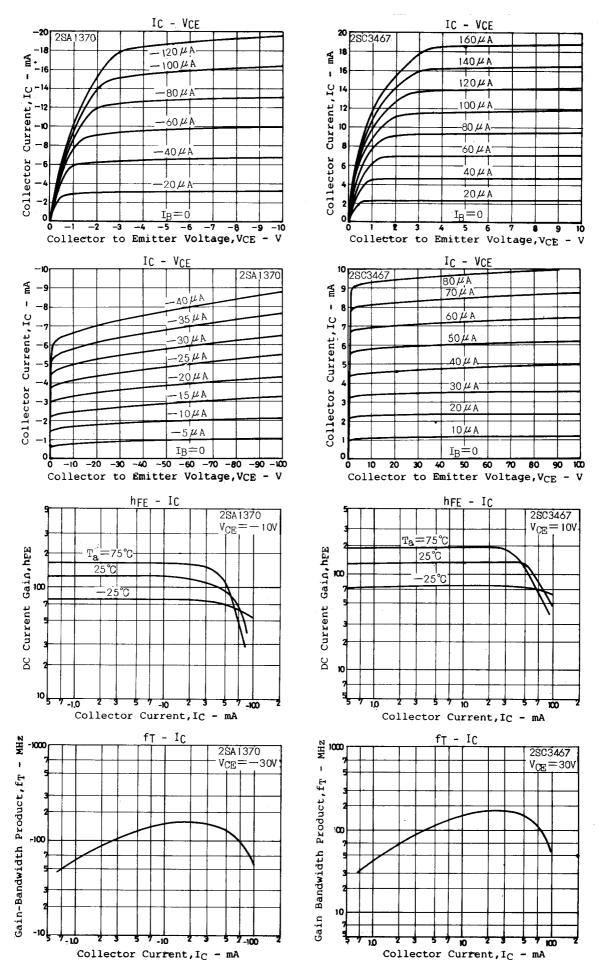
Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	VCBO		(–)200	V
Collector-to-Emitter Voltage	VCEO		(-)200	V
Emitter-to-Base Voltage	V <sub>EBO</sub>		(-)5	V
Collector Current	IC		(–)100	mA
Collector Current (Pulse)	I <sub>CP</sub>		(–)200	mA
Collector Dissipation	PC		1.0	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

#### Electrical Characteristics at Ta = 25°C

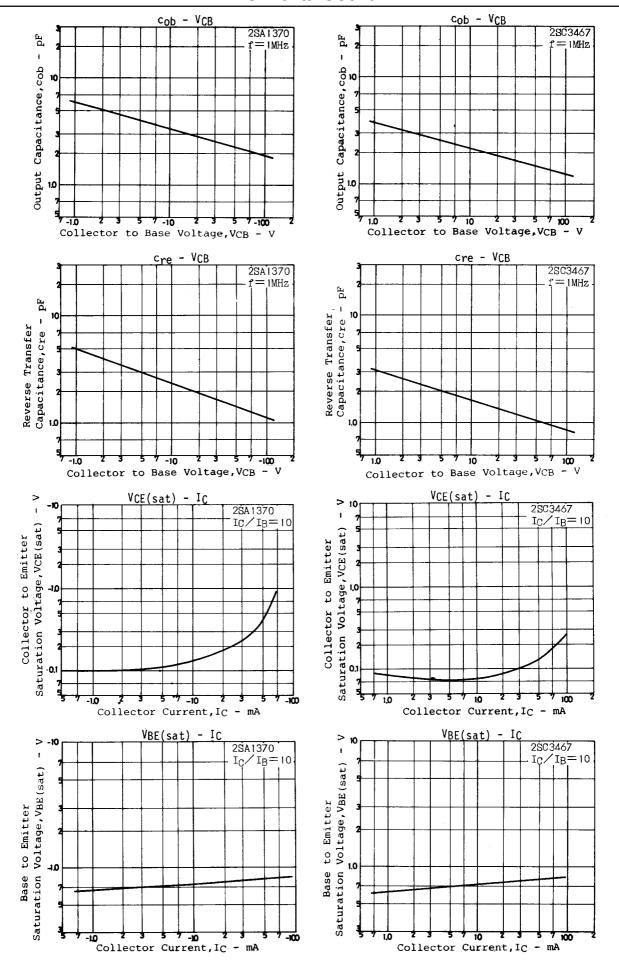
Parameter	Symbol	Conditions		Unit		
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Collector Cutoff Current	ICBO	V <sub>CB</sub> =(-)150, I <sub>E</sub> =0			(–)0.1	μA
Emitter Cutoff Current	I <sub>EBO</sub>	V <sub>EB</sub> =(-)4V, I <sub>C</sub> =0			(-)0.1	μA
DC Current Gain	hFE	V <sub>CE</sub> =(-)10V, I <sub>C</sub> =10mA	40*		320*	
Gain-Bandwidth Product	f <sub>T</sub>	V <sub>CE</sub> =(-)30V, I <sub>C</sub> =(-)10mA		150		MHz
Collector-to-Emitter Saturation Voltage	VCE(sat)	I <sub>C</sub> =(-)20mA, I <sub>B</sub> =(-)2mA			(–)0.6	V
Base-to-Emitter Saturation Voltage	V <sub>BE(sat)</sub>	I <sub>C</sub> =(-)20mA, I <sub>B</sub> =(-)2mA			(–)1.0	V
Collector-to-Base Breakdown Voltage	V <sub>(BR)</sub> CBO	I <sub>C</sub> =(-)10μΑ, I <sub>E</sub> =0	(-)200			V
Collector-to-Emitter Breakdown Voltage	V <sub>(BR)</sub> CEO	I <sub>C</sub> =(-)1mA, R <sub>BE</sub> =∞	(–)200			V
Emitter-to-Base Breakdown Votage	V <sub>(BR)EBO</sub>	I <sub>E</sub> =(-)10μA, I <sub>C</sub> =0	(–)5			V
Output Capacitance	C <sub>ob</sub>	V <sub>CB</sub> =(-)30V, f=1MHz		1.7		pF
				(2.6)		pF
Reverse Transfer Capacitance	C <sub>re</sub>	V <sub>CB</sub> =(-)30V, f=1MHz		1.2		pF
				(1.7)		pF

 $<sup>\</sup>mbox{\ensuremath{^{*}}}$  : The 2SA1370/2SC3467 are classified by 10mA  $\mbox{\ensuremath{h_{FE}}}$  as follows :

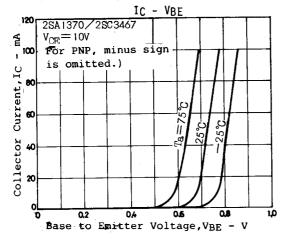
40	С	80	60	D	120	100	Е	200	160	F	320

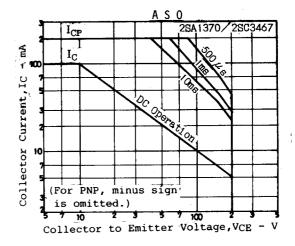


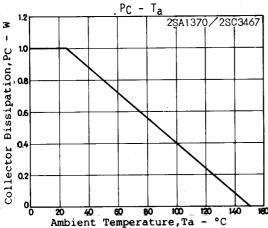
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