Ordering number : ENN1412D

ON Semiconductor®

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DATA SHEET

PNP/NPN Epitaxial Planar Silicon Transistors

2SA1370/2SC3467 — High-Definition CRT Display, Video Output Applications

Use

· Color TV chroma output and high breakdown voltage driver.

Features

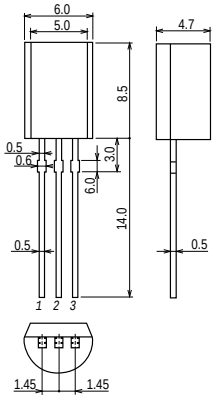
· High breakdown voltage : V_{CEO}≥200V.
· Small reverse transfer capacitance and excellent high frequency characteristic
: C_{re}=1.2pF (NPN), 1.7pF (PNP).
· Adoption of FBET process.

Package Dimensions

unit:mm

2006B

[2SA1370/2SC3467]



1 : Emitter
2 : Collector
3 : Base
SANYO : MP

( ) : 2SA1370

Specifications

Absolute Maximum Ratings at Ta = 25˚C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V_{CBO}		(–)200	V
Collector-to-Emitter Voltage	V_{CEO}		(–)200	V
Emitter-to-Base Voltage	V_{EBO}		(–)5	V
Collector Current	I_C		(–)100	mA
Collector Current (Pulse)	I_{CP}		(–)200	mA
Collector Dissipation	P_C		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	
Collector Cutoff Current	I_{CBO}	V_{CB}=(–)150, I_E=0			(–)0.1	μA
Emitter Cutoff Current	I_{EBO}	V_{EB}=(–)4V, I_C=0			(–)0.1	μA
DC Current Gain	h_{FE}	V_{CE}=(–)10V, I_C=10mA	40*		320*	
Gain-Bandwidth Product	f_T	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

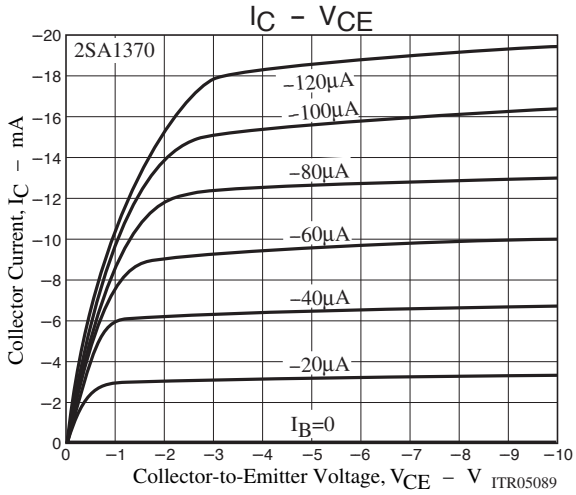
* : The 2SA1370/2SC3467 are classified by 10mA h_{FE} as follows :

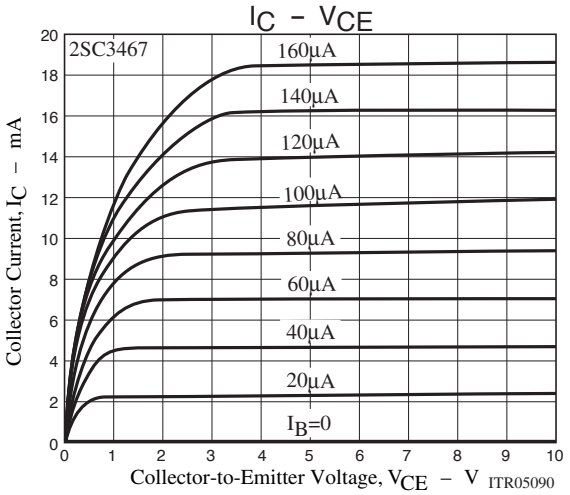
Continued on next page.

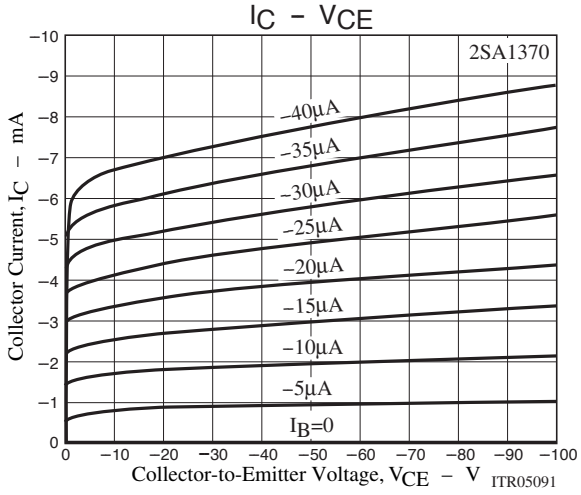
Rank	C	D	E	F
h_{FE}	40 to 80	60 to 120	100 to 200	160 to 320

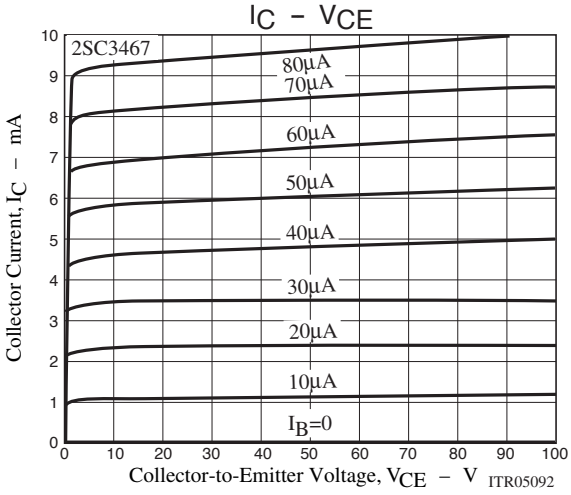
Continued from preceding page.

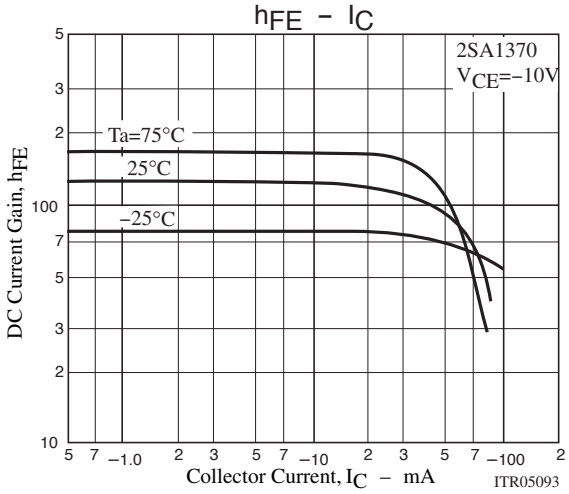
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector-to-Base Breakdown Voltage	$V_{(BR)CBO}$	I_C=(–)10μA, I_E=0	(–)200			V
Collector-to-Emitter Breakdown Voltage	$V_{(BR)CEO}$	I_C=(–)1mA, R_{BE}=∞	(–)200			V
Emitter-to-Base Breakdown Votage	$V_{(BR)EBO}$	I_E=(–)10μA, I_C=0	(–)5			V
Output 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

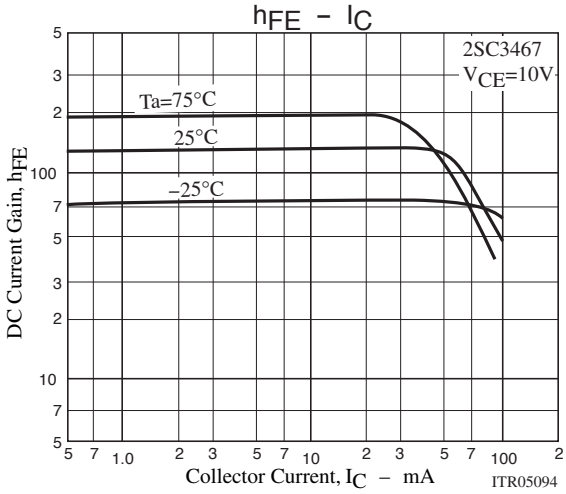


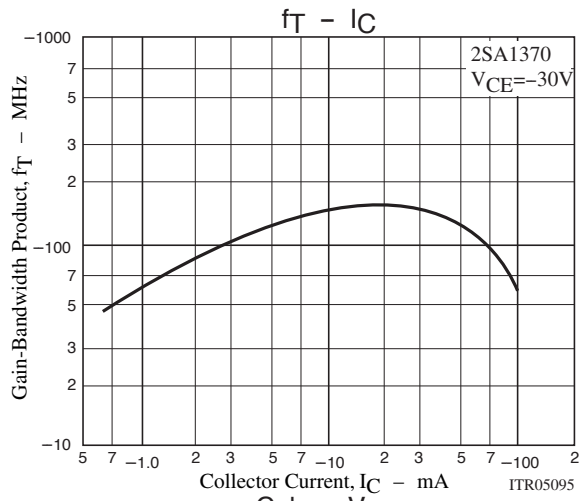


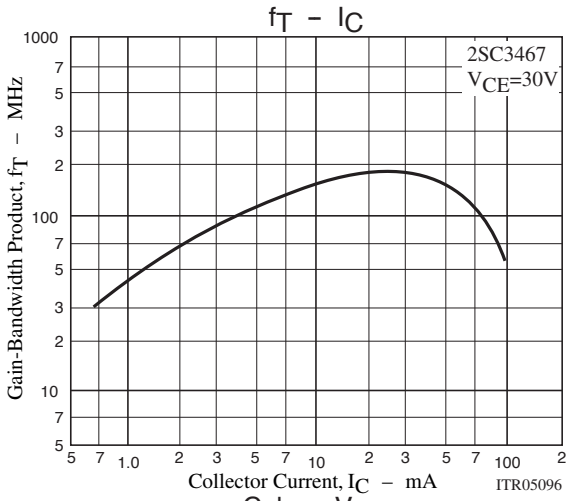


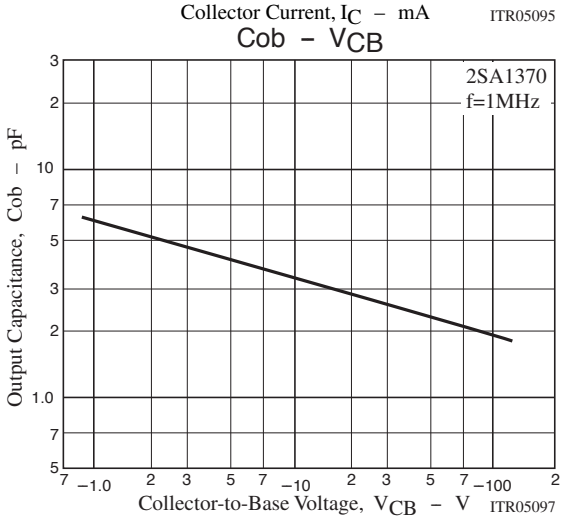


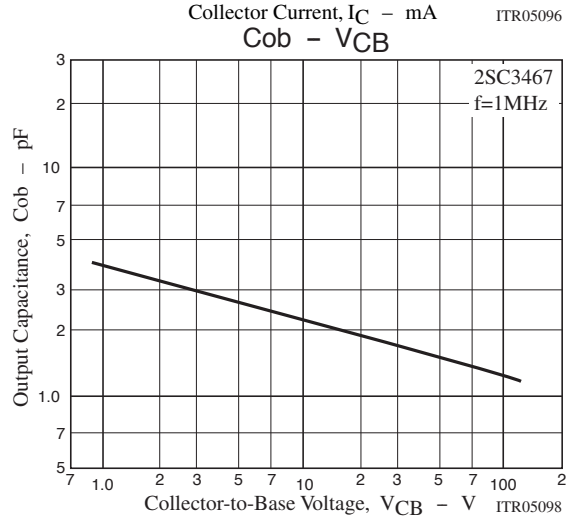


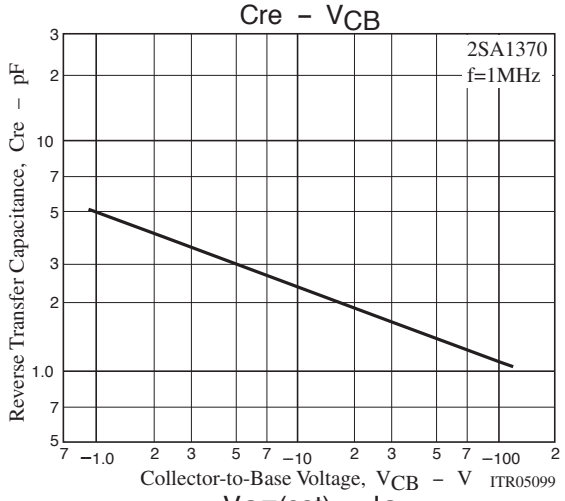


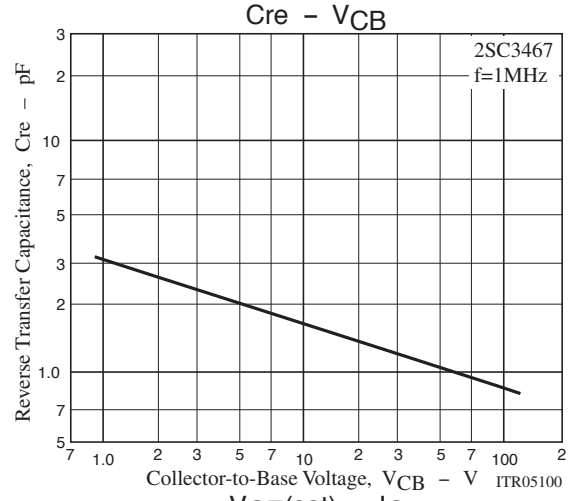


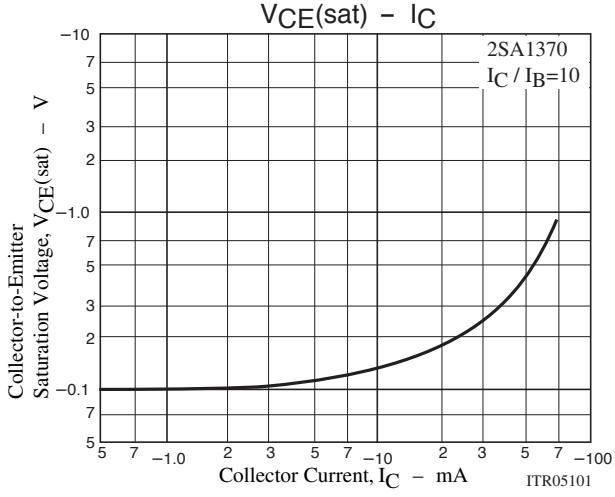


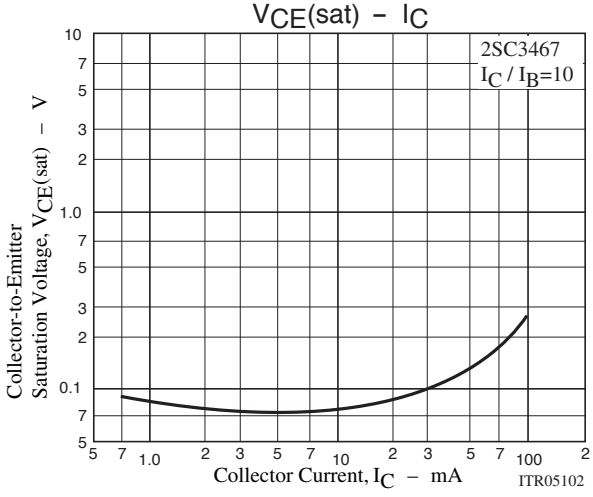


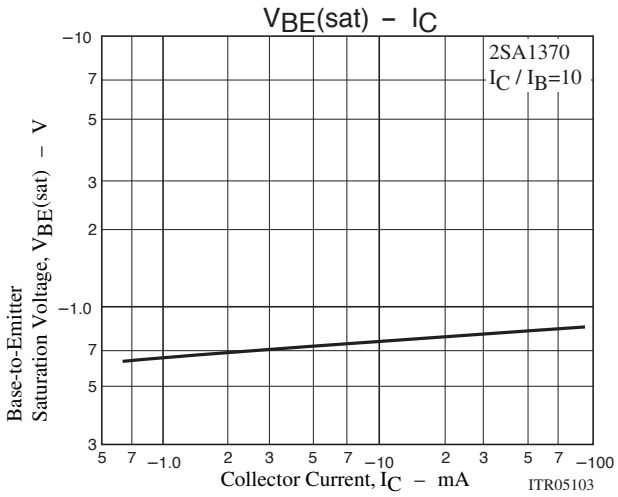


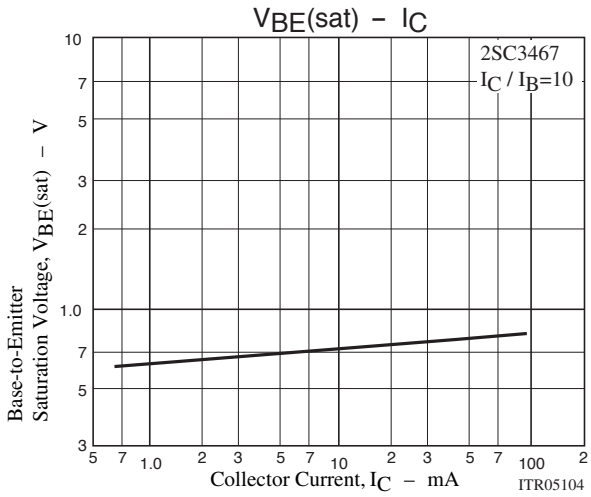


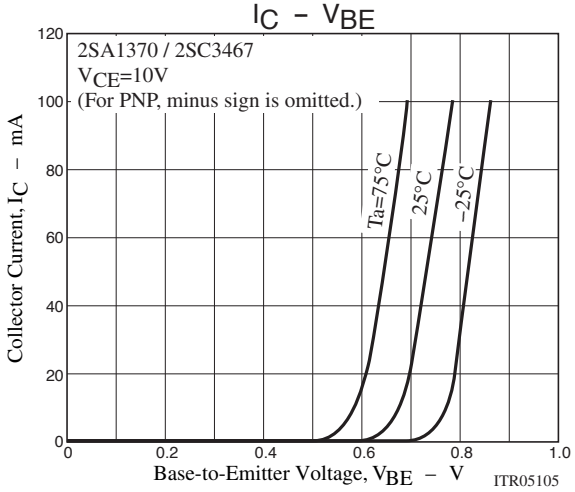


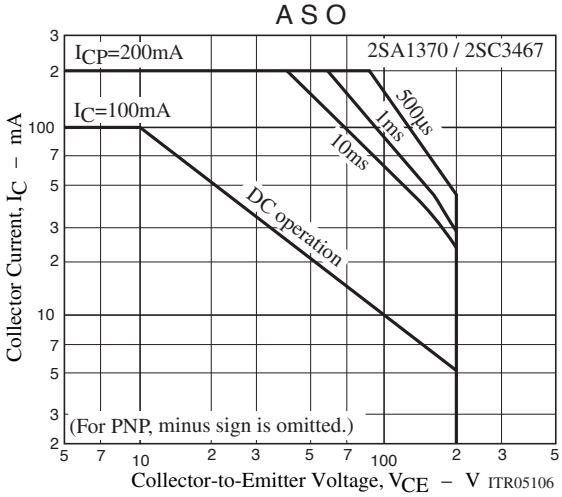


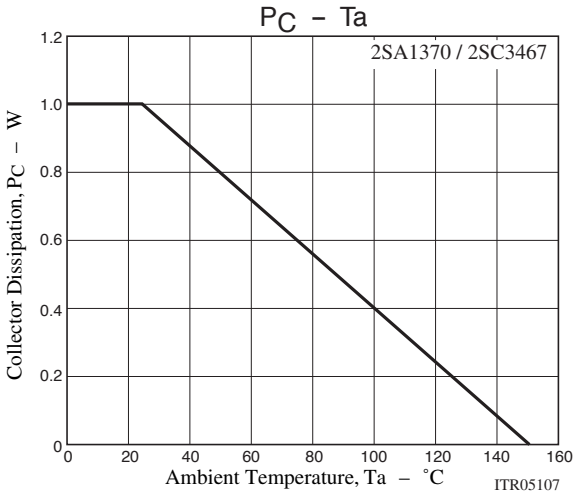












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