

2SA1353/2SC3417

Ultrahigh-Definition CRT Display Video Output Applications

Applications

- · Ultrahigh-definition CRT display.
- · Color TV chroma output, high-voltage driver applications.

Features

- · High breakdown voltage : V_{CEO}≤300V.
- · Excellent high frequency characteristics : Cre=1.8pF(typ).
- · Adoption of MBIT process.

(): 2SA1353

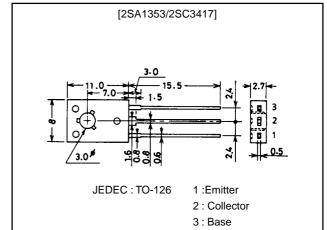
Specifications

Absolute Maximum Ratings at Ta = 25°C

Package Dimensions

unit:mm

2009B



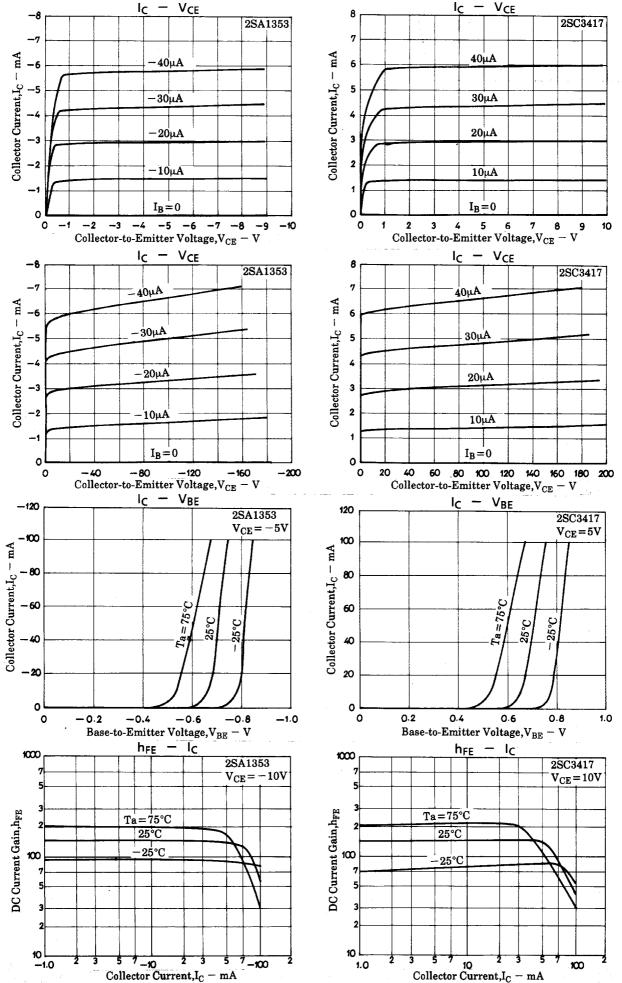
Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{CBO}		(-)300	V
Collector-to-Emitter Voltage	VCEO		(-)300	V
Emitter-to-Base Voltage	V _{EBO}		(–)5	V
Collector Current	IC		(-)100	mA
Collector Current (Pulse)	I _{CP}		(-)200	mA
Collector Dissipation	PC		1.2	W
		Tc=25°C	7	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

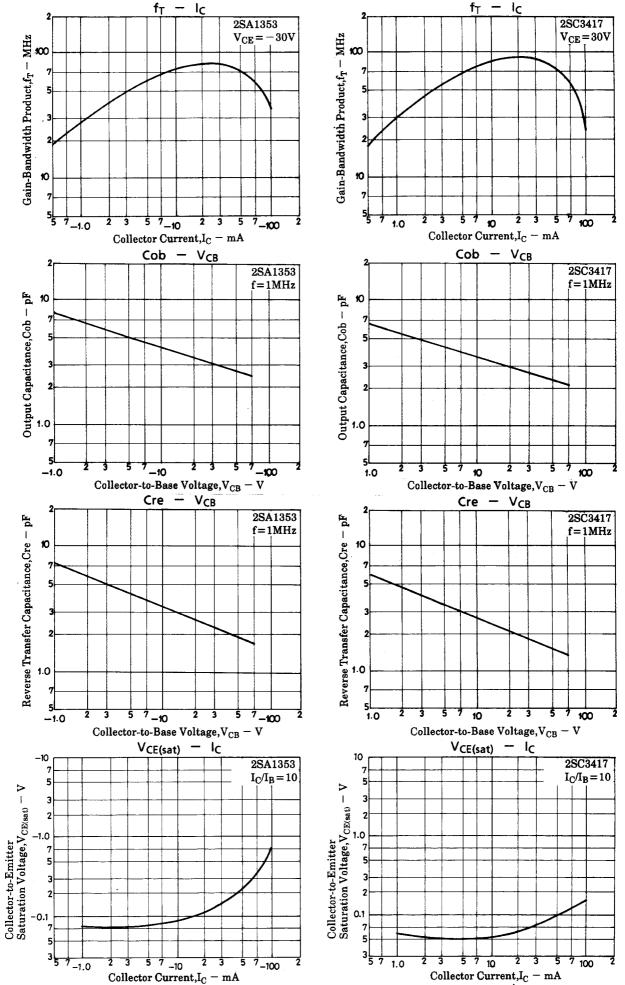
Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions		Ratings		
			min	typ	max	Unit
Collector Cutoff Current	I _{CBO}	V _{CB} =(-)200V, 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	fT	V _{CE} =(-)30V, I _C =(-)10mA		70		MHz
Collector-to-Emitter Saturation Voltage	VCE(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
Collector-to-Base Breakdown Voltage	V(BR)CBO	I _C =(-)10μΑ, I _E =0	(-)300			V
Collector-to-Emitter Breakdown Voltage	V(BR)CEO	I _C =(−)1mA, R _{BE} =∞	(-)300			V
Emitter-to-Base Breakdown Voltage	V(BR)EBO	I _E =(-)10μΑ, I _C =∞	(-)5			V
Common Base Output Capacitance	C _{ob}	V _{CB} =(-)30V, f=1MHz		2.6		pF
				(3.1)		pF
Reverse Transfer Capacitance	C _{re}	V _{CB} =(-)30V, f=1MHz		1.8		pF
				(2.3)		pF

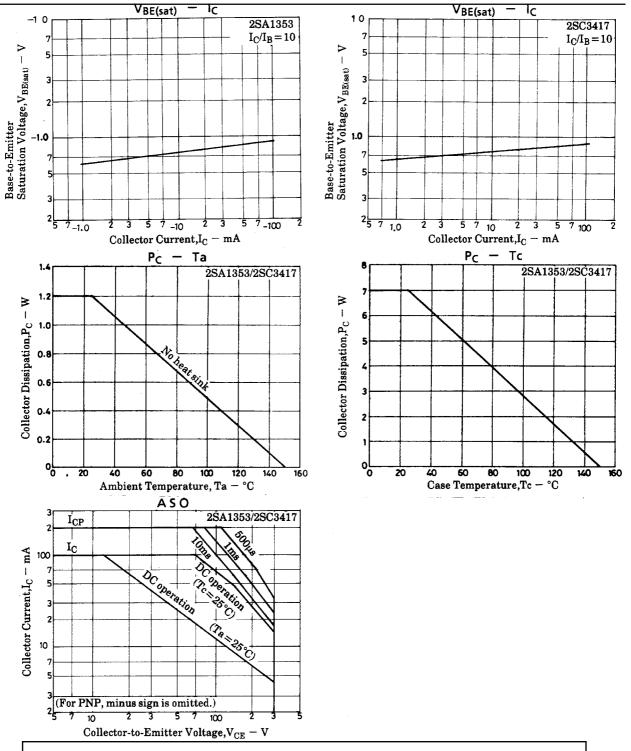
 $[\]ast$: 2SA1353/2SC3417 are classified by 10mA h_{FE} as follows :

40 C 80 60 D 120 100 E 200 160 F 320





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