

2SA1476/2SC3782

Ultrahigh-Definition CRT Display Video Output Applications

Applications

- · Video output.
- · Color TV chroma output.
- · Wide-band amp.

Features

- · High f_T (f_T typ=400MHz).
- · High breakdown voltage (V_{CEO}≥200V).
- \cdot Small reverse transfer capacitance and excellent high frequency characteristic : C_{re} =2.1pF (NPN), 2.6pF (PNP).
- · Complementary PNP and NPN types.
- · Adoption of FBET process.

(): 2SA1476

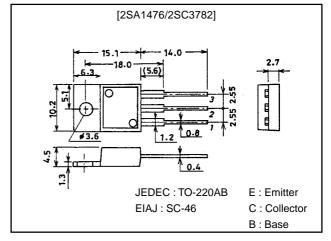
Specifications

Absolute Maximum Ratings at Ta = 25°C

Package Dimensions

unit:mm

2010C



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}		(–)4	V
Collector Current	IC		(–)200	mA
Peak Collector Current	ICP		(-)300	mA
Collector Dissipation	PC		1.5	W
		Tc=50°C	15	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

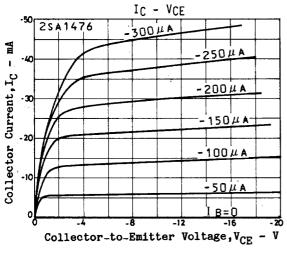
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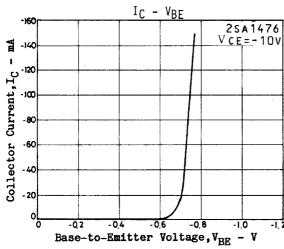
Electrical Characteristics at Ta = 25°C

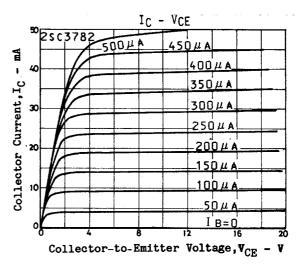
Parameter	Symbol	Conditions		Unit		
Farameter	Symbol	Conditions	min	typ	max (-)0.1 (-)1.0 320* 0.6 (-0.8) (-)1.0	Offic
Collector Cutoff Current	I _{CBO}	V _{CB} =(-)150V, I _E =0			(-)0.1	μA
Emitter Cutoff Current	I _{EBO}	V _{EB} =(-)2V, I _C =0			(–)1.0	μA
DC Current Gain	h _{FE} 1	V _{CE} =(-)10V, I _C =(-)10mA	40*		320*	
	h _{FE} 2	V _{CE} =(-)10V, I _C =(-)100mA	20			
Gain-Bandwidth Product	fT	V _{CE} =(-)30V, I _C =(-)50mA		400		MHz
Collector-to-Emitter Saturation Voltage	VCE(sat)	I _C =(-)50mA, I _B =(-)5mA			0.6	V
					(-0.8)	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =(-)50mA, I _B =(-)5mA			(-)1.0	V
Collector-to-Base Breakdown Voltage	V(BR)CBO	I _C =(-)10μΑ, 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 =(-)100μA, I _C =0	(-)4			V
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		2.1		pF
				(2.6)		pF

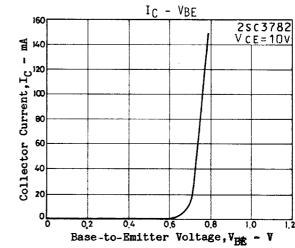
 $\mbox{\rm *}:$ The 2SA1476/2SC3782 are classified by 10mA $\mbox{\rm h}_{FE}$ as follows :

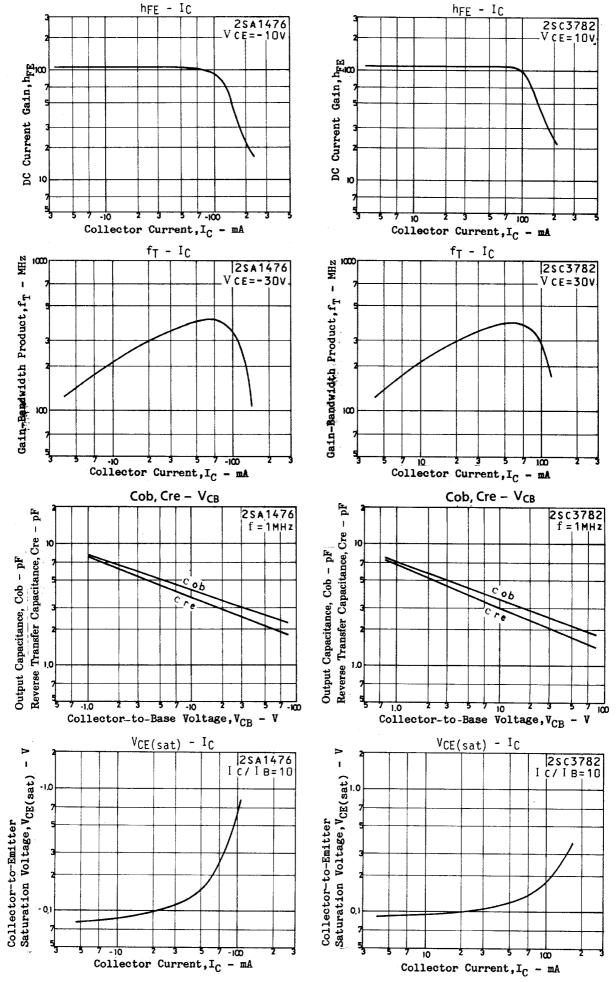
40 C 80 60 D 120 100 E 200 160 F 320	Γ	40	С	80	60	D	120	100	Е	200	160	F	320
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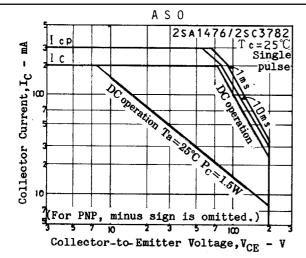


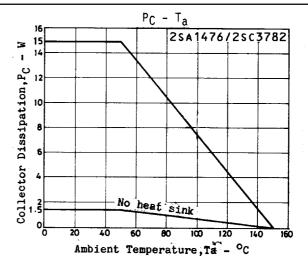






2SA1476/2SC3782





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