

## 2SA1479/2SC3789

# **High-Definiton CRT Display Video Output Applications**

### **Applications**

- · High-definition CRT display.
- · Color TV chroma output, high breakdown voltage

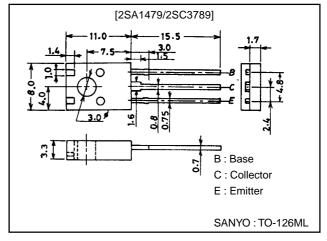
#### **Features**

- · High breakdown voltage (V<sub>CEO</sub>≥300V).
- · Excellent high frequency characteristic
- $: C_{re} = 1.8 pF (typ).$
- · Adoption of MBIT process.
- · No insulator required for mounting, which contributes to reducing the cost and the number of manufacturing processes.
- · Plastic-covered heat sink facilitating high-density mounting.
- · Directly interchange able with TO-126 because the package is designed based on the conventional package dimensions.

### **Package Dimensions**

unit:mm

2042A



(): 2SA1479

### **Specifications**

#### Absolute Maximum Ratings at Ta = 25°C

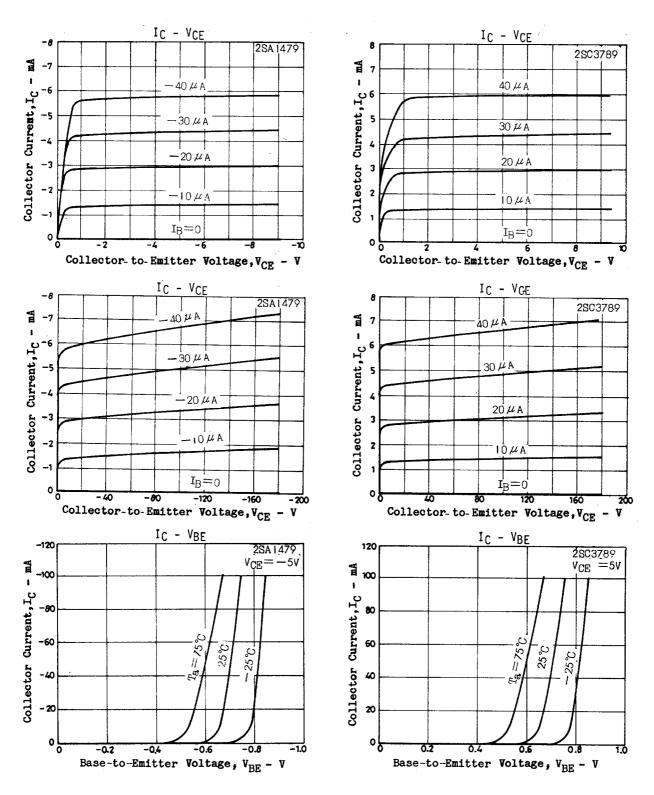
Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V <sub>CBO</sub>		(-)300	V
Collector-to-Emitter Voltage	V <sub>CEO</sub>		(-)300	V
Emitter-to-Base Voltage	V <sub>EBO</sub>		(-)5	V
Collector Current	IC		(–)100	mA
Peak Collector Current	I <sub>CP</sub>		(–)200	mA
Collector Dissipation	PC		1.5	W
		Tc=25°C	7	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

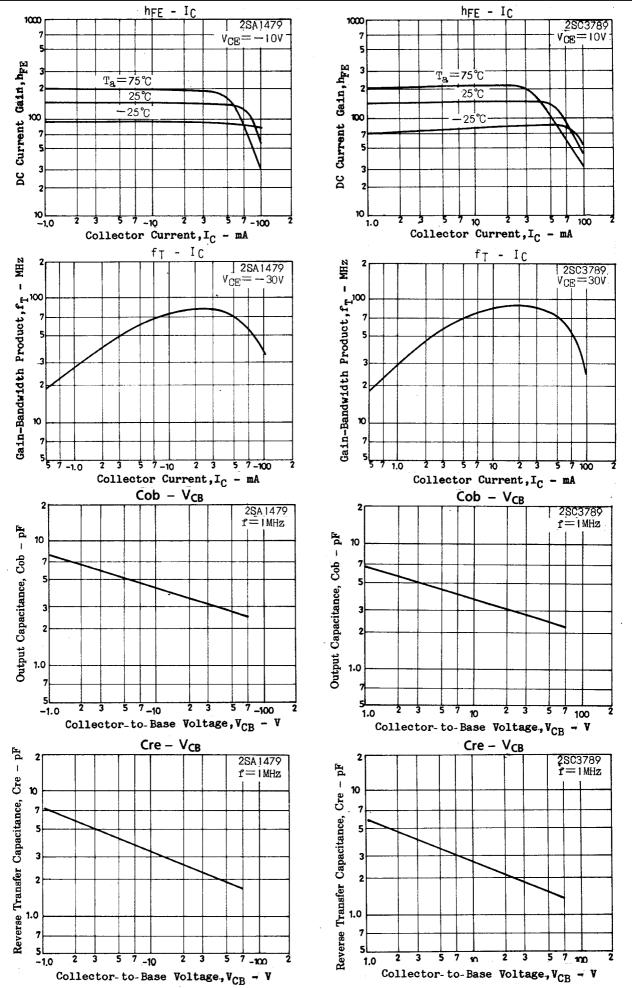
#### Electrical Characteristics at Ta = 25°C

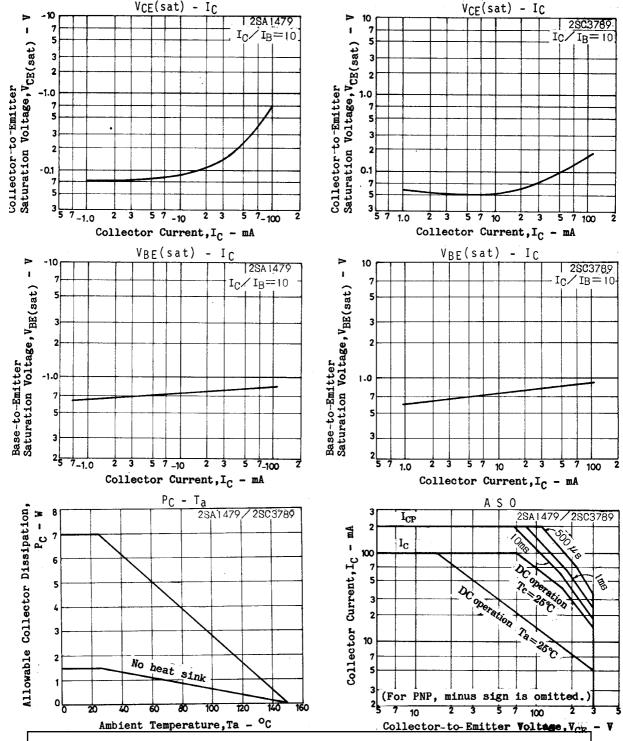
Parameter	Symbol	Conditions		Unit		
Farameter	Symbol	Conditions	min	typ	max	Offic
Collector Cutoff Current	I <sub>CBO</sub>	V <sub>CB</sub> =(-)200V, I <sub>E</sub> =0			(-)0.1	μA
Emitter Cutoff Current	I <sub>EBO</sub>	V <sub>EB</sub> =(-)4V, I <sub>C</sub> =0			(-)0.1	μΑ
DC Current Gain	h <sub>FE</sub>	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		70		MHz
Collector-to-Emitter Saturation Voltage	V <sub>CE(sat)</sub>	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(BR)CBO	I <sub>C</sub> =(-)10μΑ, I <sub>E</sub> =0	(-)300			V
Collector-to-Emitter Breakdown Voltage	V(BR)CEO	I <sub>C</sub> =(-)1mA, R <sub>BE</sub> =∞	(-)300			V
Emitter-to-Base Breakdown Votage	V <sub>(BR)EBO</sub>	$I_E=(-)10\mu A, I_C=0$	(–)5			V
Output Capacitance	C <sub>ob</sub>	V <sub>CB</sub> =(-)30V, f=1MHz		2.6		pF
				(3.1)		pF
Reverse Transfer Capacitance	C <sub>re</sub>	V <sub>CB</sub> =(-)30V, f=1MHz		1.8		pF
				(2.3)		pF

 $\ensuremath{^*}$  : The 2SA1479/2SC3789 are classified by 10mA  $\ensuremath{h_{FE}}$  as follows :

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	40	С	80	60	D	120	100	Ε	200	160	F	320







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