

<b>SANYO</b>	No.2093	2SA1479/2SC3789
	PNP/NPN Epitaxial Planar Type Silicon Transistors HIGH-DEFINITION CRT DISPLAY VIDEO OUTPUT APPLICATIONS	

**Applications**

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

**Features**

- . High breakdown voltage ( $V_{CE0} \geq 300V$ )
- . Excellent high frequency characteristic ( $c_{re} = 1.8pF(\text{typ})$ )
- . 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 interchangeable with TO-126 because the package is designed based on the conventional package dimensions

( ): 2SA1479

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

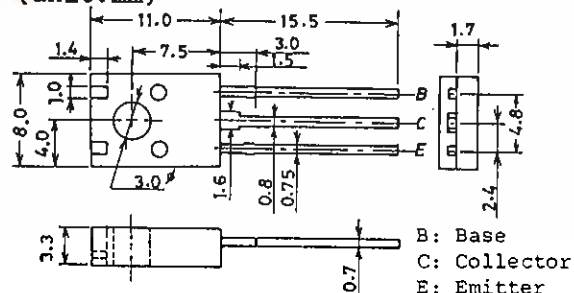
			unit
Collector-to-Base Voltage	$V_{CBO}$	(-)300	V
Collector-to-Emitter Voltage	$V_{CEO}$	(-)300	V
Emitter-to-Base Voltage	$V_{EBO}$	(-)5	V
Collector Current	$I_C$	(-)100	mA
Peak Collector Current	$i_{cp}$	(-)200	mA
Collector Dissipation	$P_C$	1.5	W
		$T_c = 25^\circ C$	7
Junction Temperature	$T_j$	150	°C
Storage Temperature	$T_{stg}$	-55 to +150	°C

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

			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	$f_T$	$V_{CE} = (-)30V, I_C = (-)10mA$		70		MHz
C-E Saturation Voltage	$V_{CE(sat)}$	$I_C = (-)20mA, I_B = (-)2mA$			(-)0.6	V
B-E Saturation Voltage	$V_{BE(sat)}$	$I_C = (-)20mA, I_B = (-)2mA$			(-)1.0	V

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**Package Dimensions 2042A**  
(unit:mm)



SANYO: TO126ML

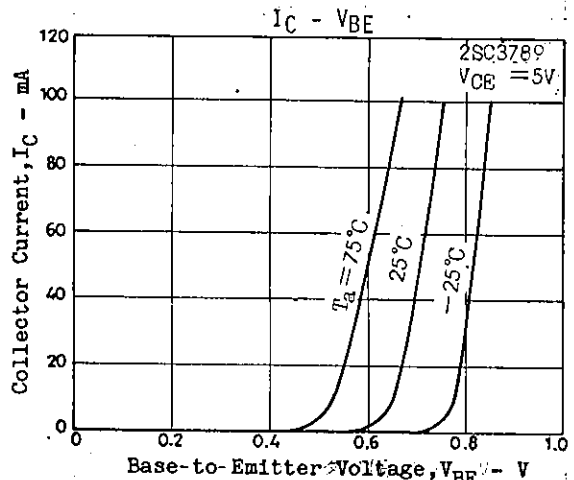
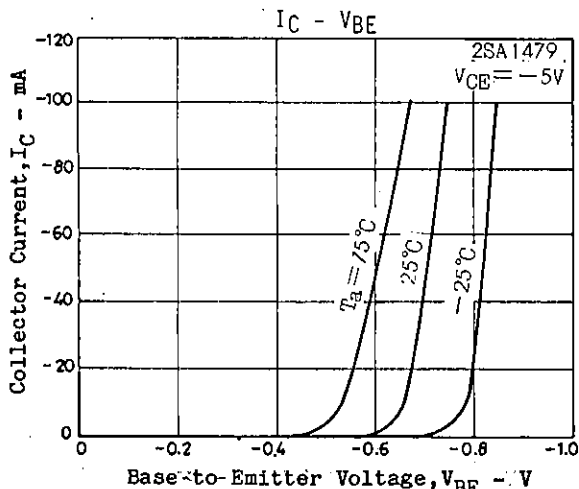
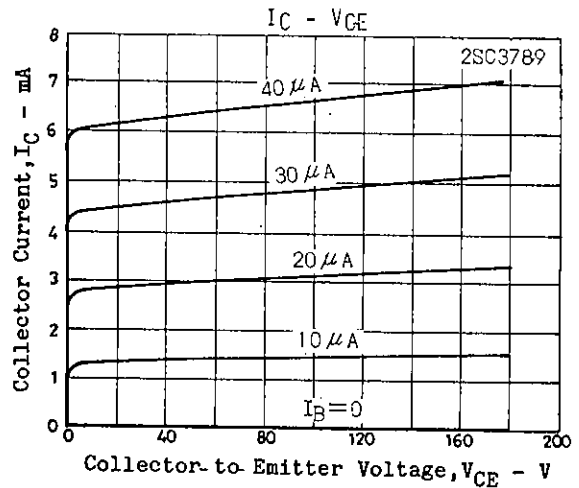
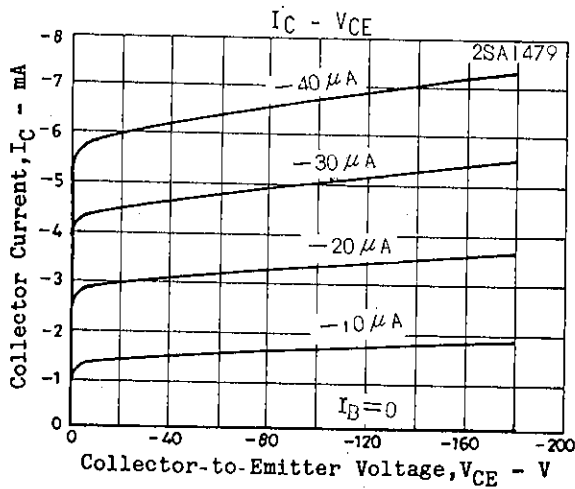
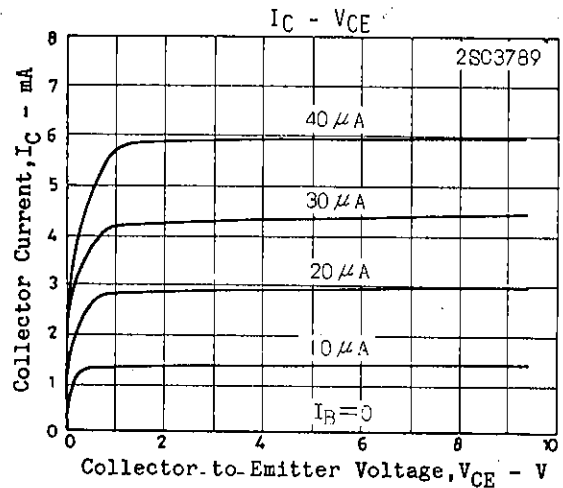
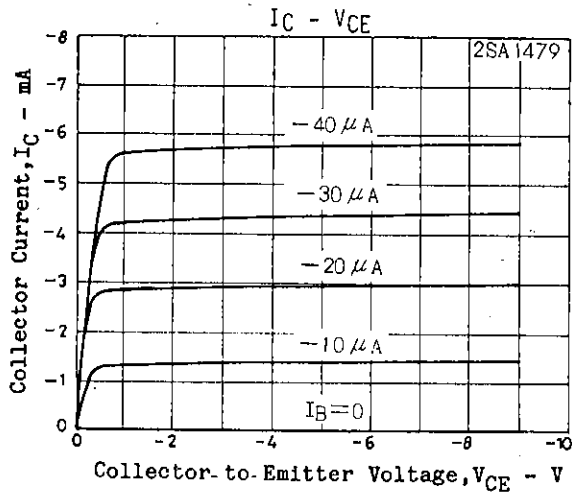
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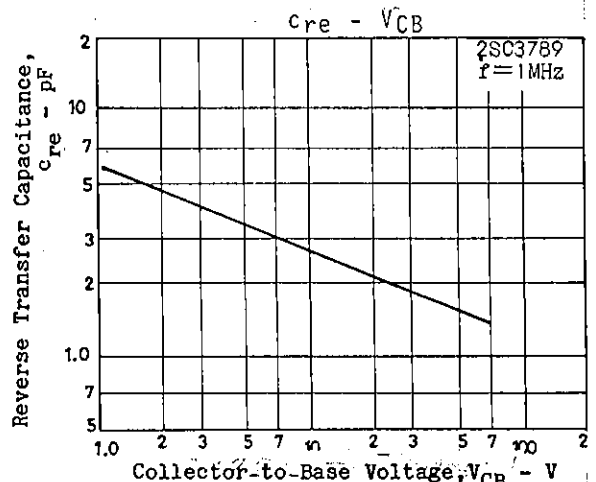
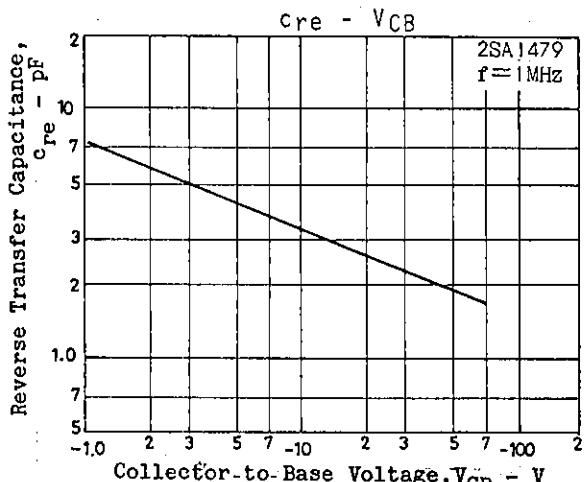
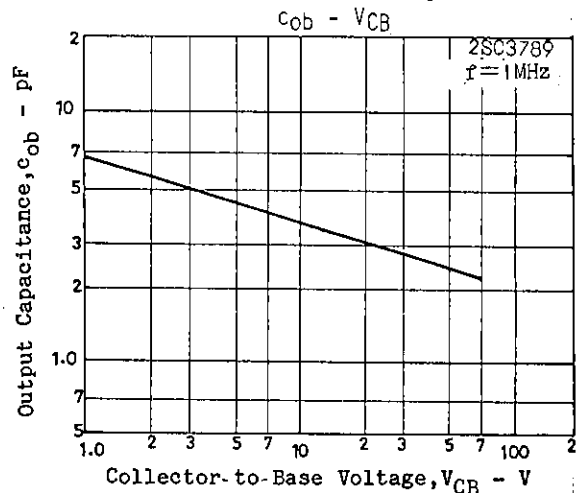
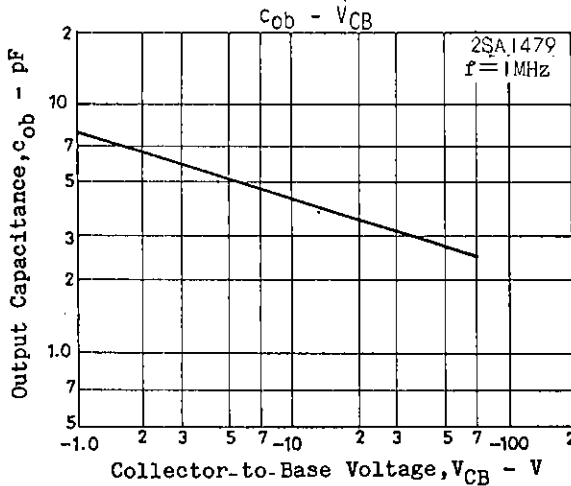
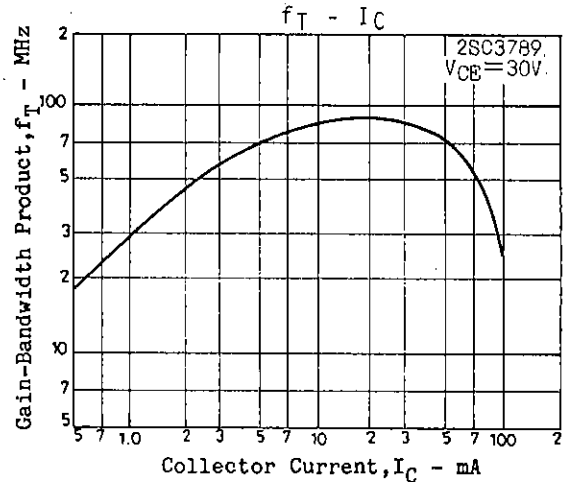
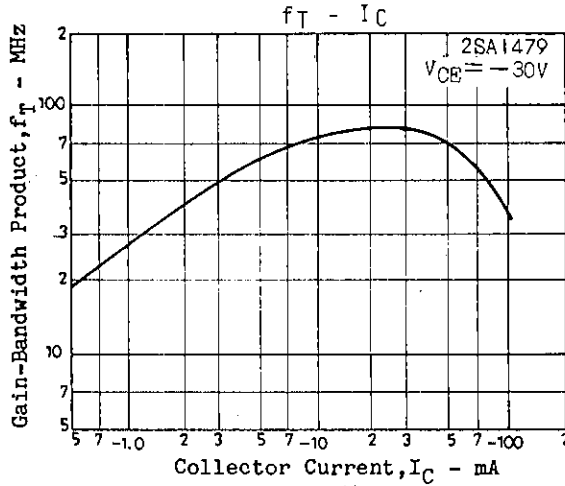
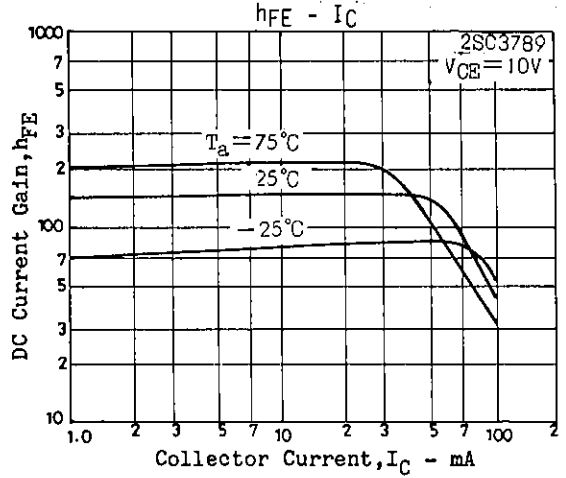
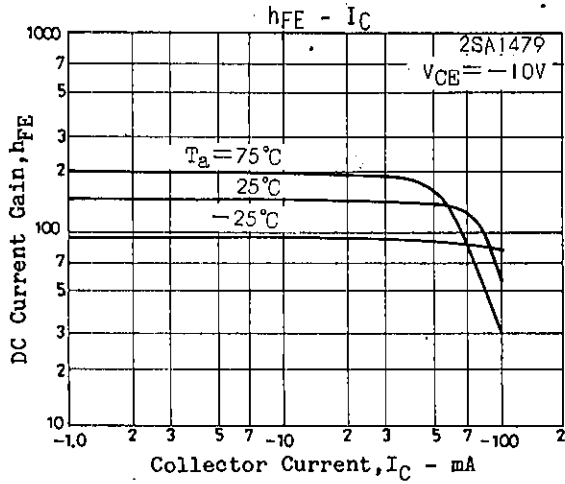
			min	typ	max	unit
C-B Breakdown Voltage	$V_{(BR)CBO}$	$I_C = (-) 10\mu A, I_E = 0$	(-)300			V
C-E Breakdown Voltage	$V_{(BR)CEO}$	$I_E = (-) 1mA, R_{BE} = \infty$	(-)300			V
E-B Breakdown Voltage	$V_{(BR)EBO}$	$I_E = (-) 10\mu A, I_C = 0$	(-)5			V
Output Capacitance	$c_{ob}$	$V_{CB} = (-) 30V, f = 1MHz$		2.6		pF
				(3.1)		
Reverse Transfer Capacitance	$c_{re}$	$V_{CB} = (-) 30V, f = 1MHz$		1.8		pF
				(2.3)		

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

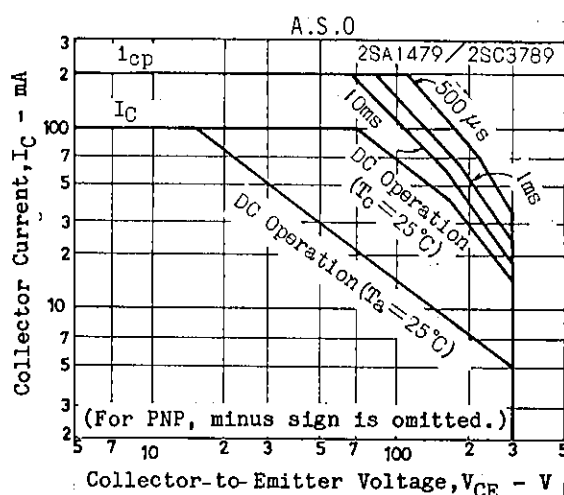
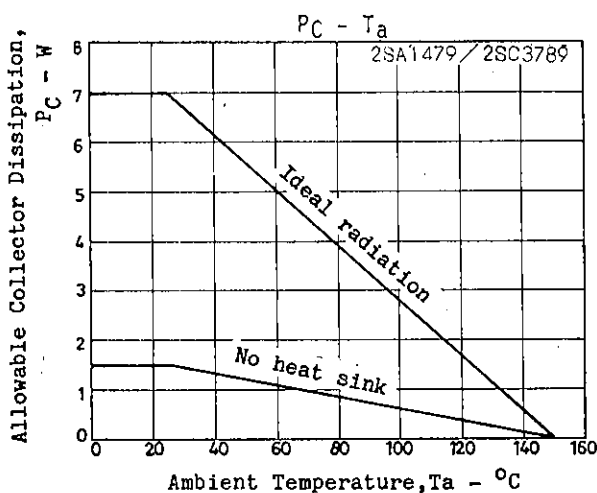
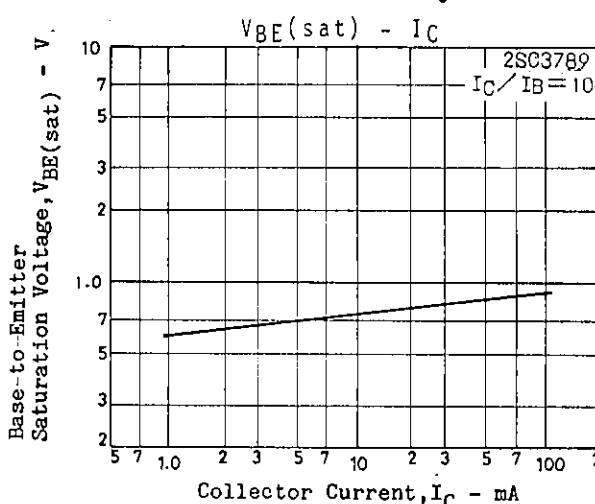
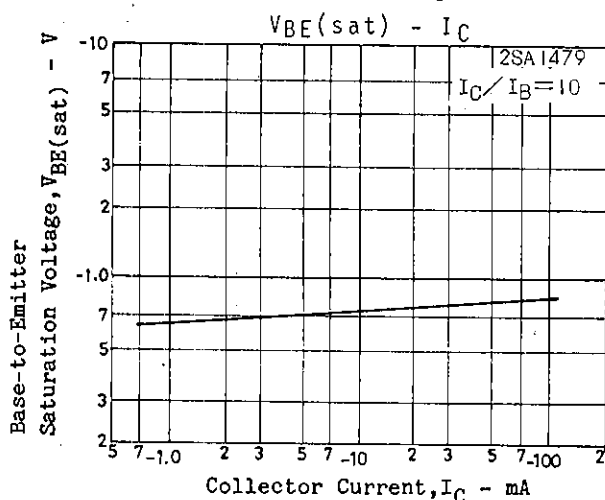
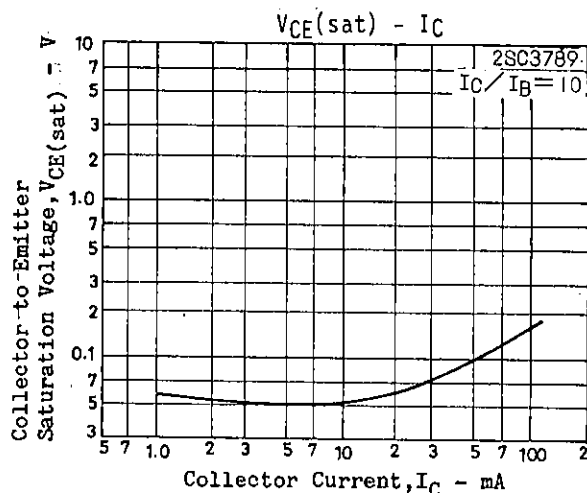
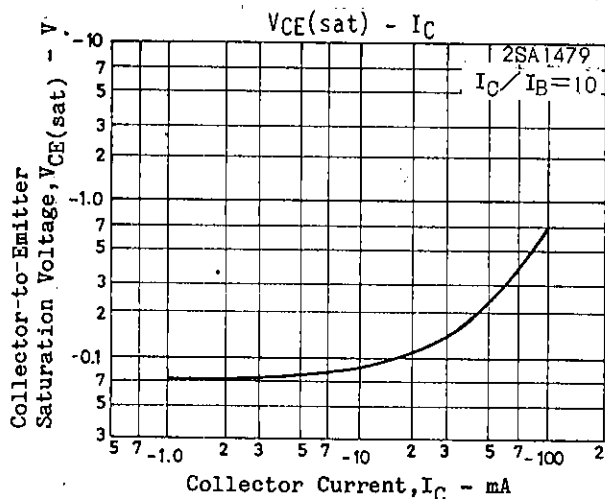
40 C 80	60 D 120	100 E 200	160 F 320
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2SA1479/2SC3789



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