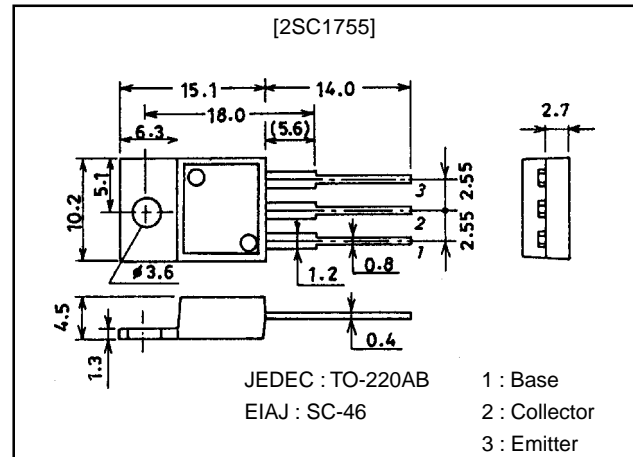


**2SC1755****TV Chroma, Video, Audio Output Applications****Package Dimensions**

unit:mm

2010C

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

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V_{CB0}		300	V
Collector-to-Emitter Voltage	V_{CEO}		300	V
Emitter-to-Base Voltage	V_{EBO}		7	V
Collector Current	I_C		200	mA
Collector Current (Pulse)	I_{CP}		700	mA
Collector Dissipation	P_C	$T_c=25^\circ\text{C}$	1.2	W
Junction Temperature	T_j		150	$^\circ\text{C}$
Storage Temperature	T_{stg}		-40 to +150	$^\circ\text{C}$

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector Cutoff Current	I_{CBO}	$V_{CB}=200\text{V}, I_E=0$			0.1	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB}=5\text{V}, I_C=0$			0.1	μA
DC Current Gain	h_{FE}	$V_{CE}=10\text{V}, I_C=10\text{mA}$	40*		200*	
Gain-Bandwidth Product	f_T	$V_{CE}=30\text{V}, I_C=10\text{mA}$	50			MHz
Output Capacitance	C_{ob}	$V_{CB}=50\text{V}, f=1\text{MHz}$			5.3	pF
Collector-to-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=50\text{mA}, I_B=5\text{mA}$			2.0	V

* : The 2SC1755 is classified by 10mA h_{FE} as follows :

40	C	80	60	D	120	100	E	200
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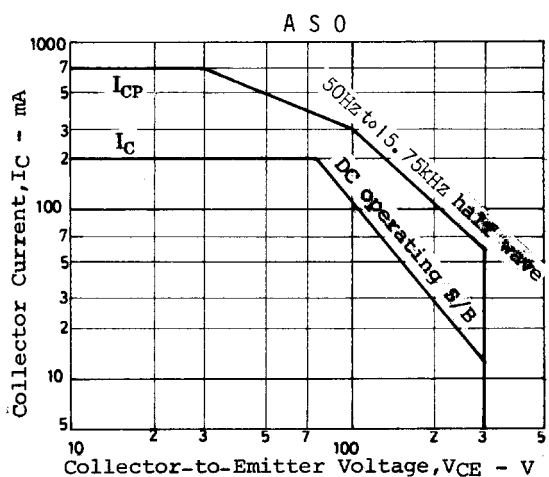
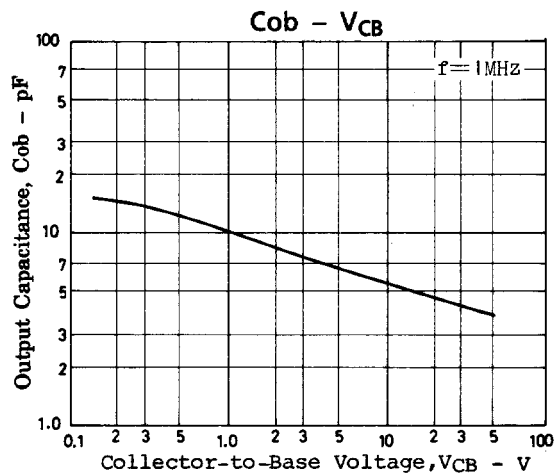
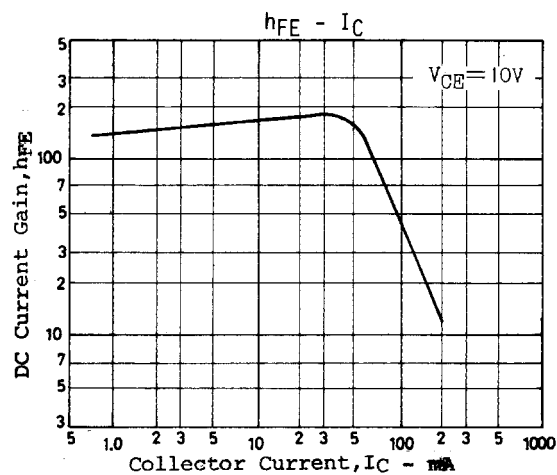
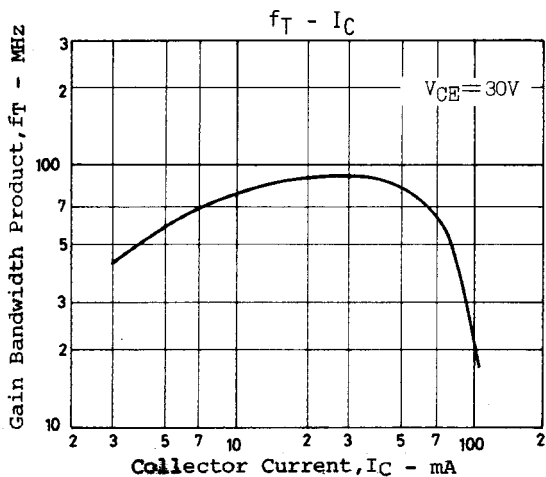
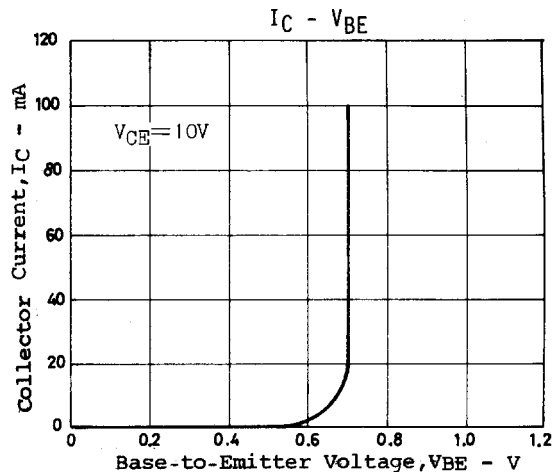
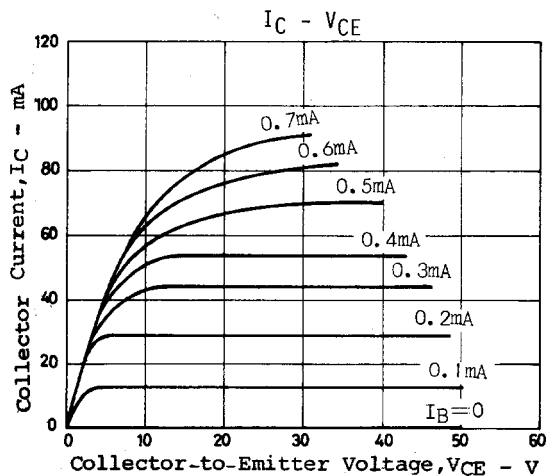
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2SC1755



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