NPN Triple Diffused Planar Silicon Transistor

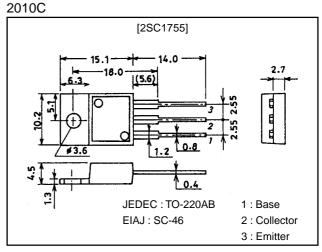


## 2SC1755

# **TV Chroma, Video, Audio Output Applications**

### **Package Dimensions**

unit:mm



## **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	VCEO		300	V
Emitter-to-Base Voltage	VEBO		7	V
Collector Current	IC		200	mA
Collector Current (Pulse)	ICP		700	mA
Collector Dissipation	PC		1.2	W
		Tc=25°C	15	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-40 to +150	°C

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

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
Collector Cutoff Current	ICBO	V <sub>CB</sub> =200V, I <sub>E</sub> =0			0.1	μΑ
Emitter Cutoff Current	IEBO	V <sub>EB</sub> =5V, I <sub>C</sub> =0			0.1	μΑ
DC Current Gain	hFE	V <sub>CE</sub> =10V, I <sub>C</sub> =10mA	40*		200*	
Gain-Bandwidth Product	fT	V <sub>CE</sub> =30V, I <sub>C</sub> =10mA	50			MHz
Output Capacitance	Cob	V <sub>CB</sub> =50V, f=1MHz			5.3	pF
Collector-to-Emitter Saturation Voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> =50mA, I <sub>B</sub> =5mA			2.0	V

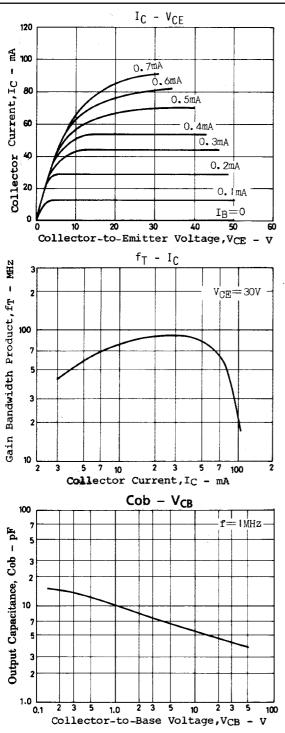
 $\ast$  : The 2SC1755 is classified by 10mA  $h_{FE}$  as follows :

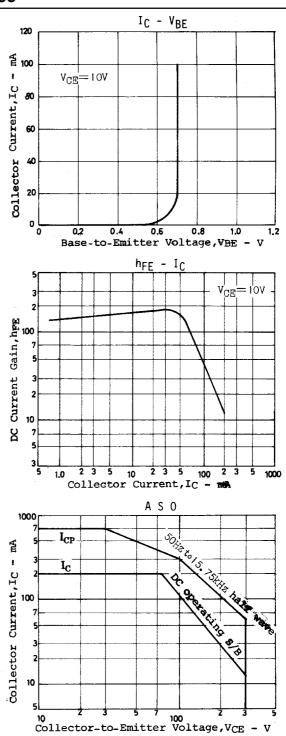
40 C 80 60 D 120 100 E 200

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