

SANYO

No.429E

2SC1755

NPN Triple Diffused Planar Silicon Transistor
TV Chroma, Video,
Audio Output Applications

Absolute Maximum Ratings at $T_a=25^\circ\text{C}$

Absolute Maximum Ratings at Ta=25°C				unit
Collector-to-Base Voltage	V _{CB0}	300		V
Collector-to-Emitter Voltage	V _{CEO}	300		V
Emitter-to-Base Voltage	V _{EB0}	7		V
Collector Current	I _C	200		mA
Collector Current (Pulse)	I _{CP}	700		mA
Collector Dissipation	P _C	1.2		W
	P _C		Tc=25°C	15 W
Junction Temperature	T _j	150		°C
Storage Temperature	T _{stg}	-40 to +150		°C

Electrical Characteristics at $T_a=25^\circ\text{C}$

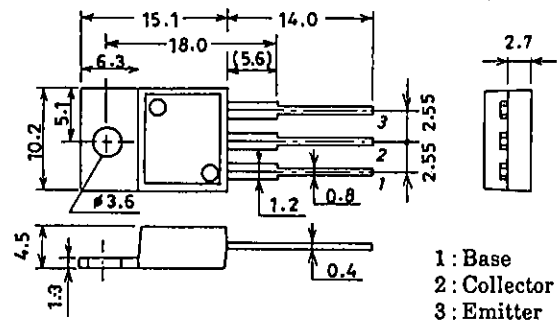
			min	typ	max	unit
Collector Cutoff Current	I_{CBO}	$V_{CB}=200\text{V}, I_E=0$			0.1	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB}=5\text{V}, I_C=0$			0.1	μA
DC Current Gain	h_{FE}	$V_{CE}=10\text{V}, I_C=10\text{mA}$	40*		200*	
Gain Bandwidth Product	f_T	$V_{CE}=30\text{V}, I_C=10\text{mA}$	50			MHz
Output Capacitance	C_{ob}	$V_{CB}=50\text{V}, f=1\text{MHz}$			5.3	pF
C-E 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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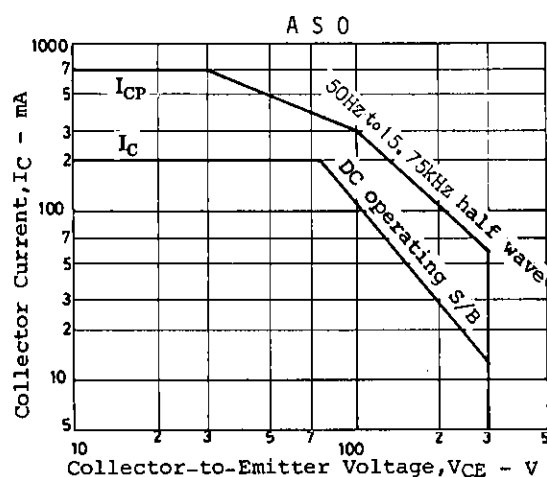
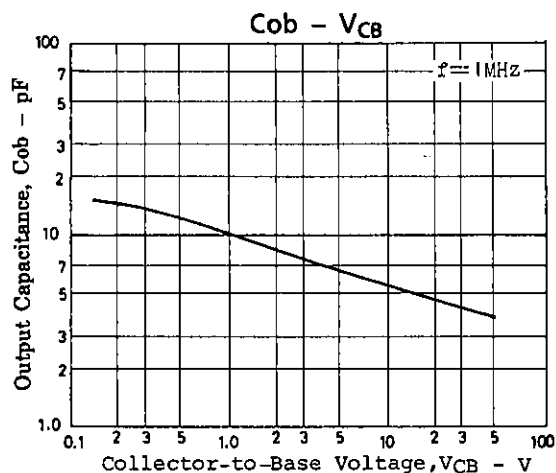
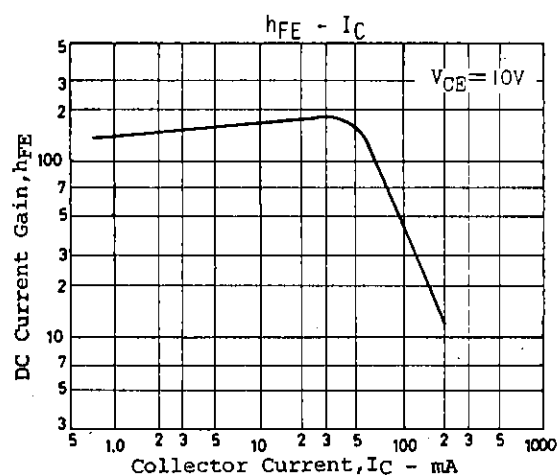
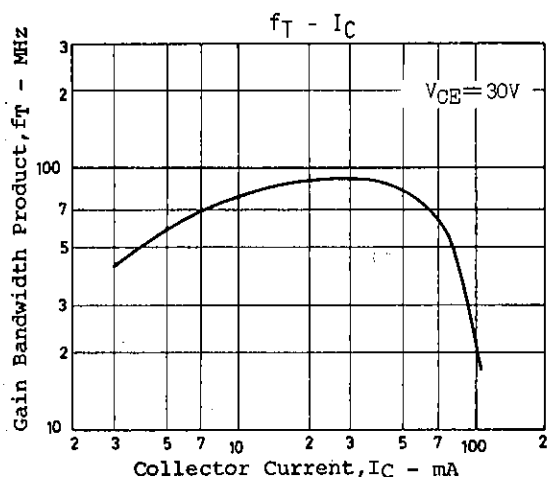
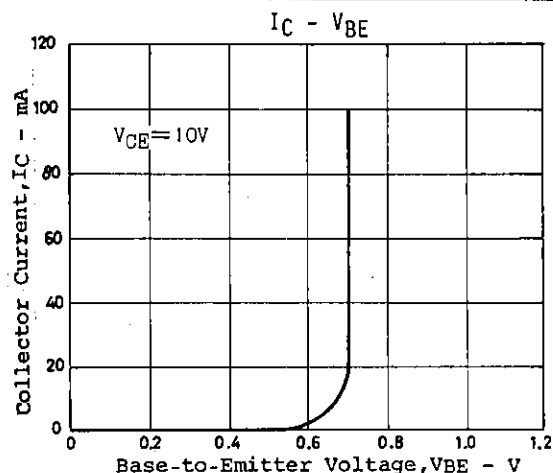
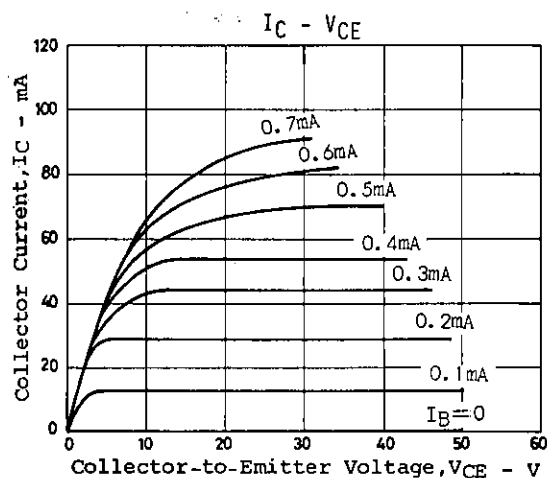
Package Dimensions 2010C

(unit: mm)



1: Base
2: Collector
3: Emitter

JEDEC: TO220AB
EIAJ: SC46



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