NPN Triple Diffused Planar Silicon Transistor

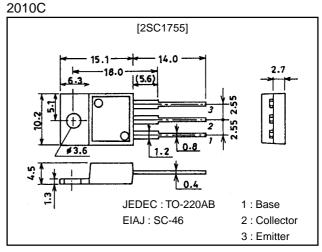


2SC1755

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 _{CBO}		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 _{CB} =200V, I _E =0			0.1	μΑ
Emitter Cutoff Current	IEBO	V _{EB} =5V, I _C =0			0.1	μΑ
DC Current Gain	hFE	V _{CE} =10V, I _C =10mA	40*		200*	
Gain-Bandwidth Product	fT	V _{CE} =30V, I _C =10mA	50			MHz
Output Capacitance	Cob	V _{CB} =50V, f=1MHz			5.3	pF
Collector-to-Emitter Saturation Voltage	V _{CE(sat)}	I _C =50mA, I _B =5mA			2.0	V

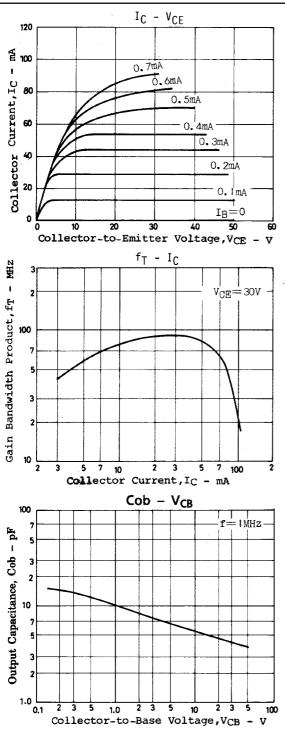
 \ast : The 2SC1755 is classified by 10mA h_{FE} as follows :

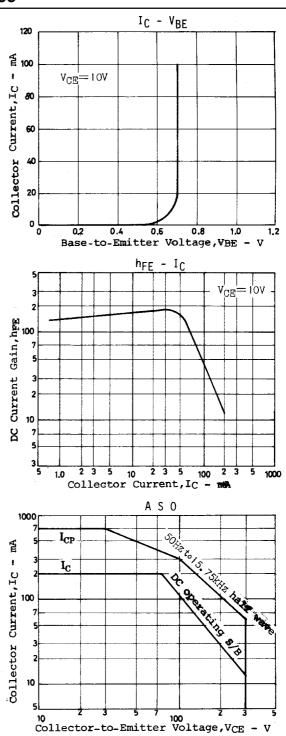
40 C 80 60 D 120 100 E 200

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