NPN Triple Diffused Planar Silicon Transistor



2SC2857

High-Voltage Driver Applications

Applications

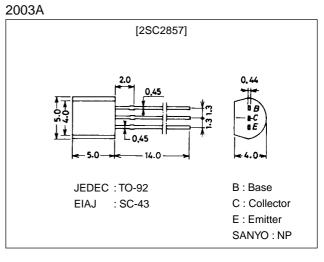
· Color TV vertical driver, sound driver applications.

Features

- · High breakdown voltage (V_{CEO} \geq 180V)
- · High collector dissipation ($P_C=500$ mW)

Package Dimensions

unit:mm



Specifications

Absolute Maximum Ratings at Ta = 25°C

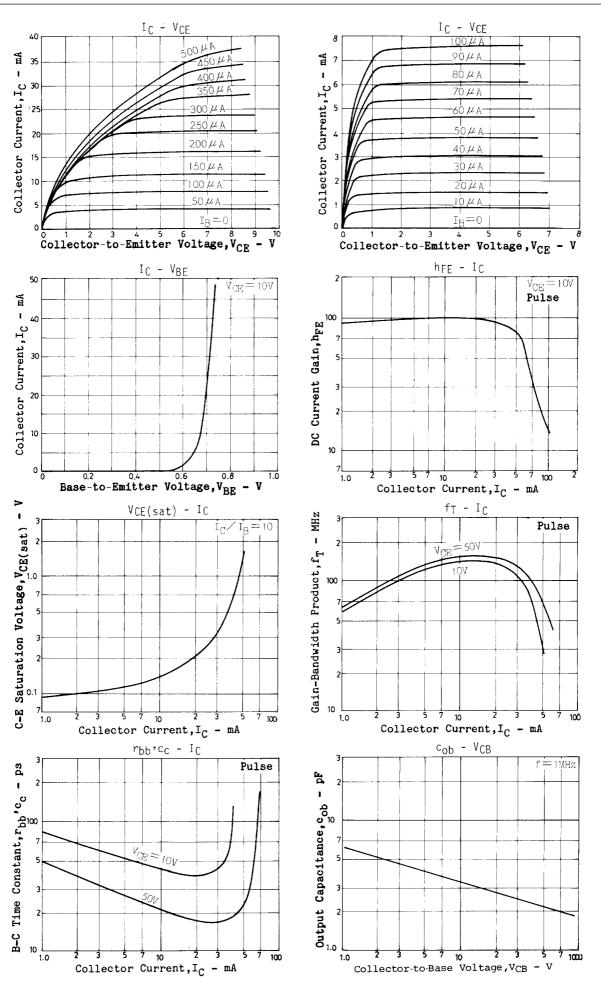
Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{CBO}		180	V
Collector-to-Emitter Voltage	V _{CEO}		180	V
Emitter-to-Base Voltage	V _{EBO}		5	V
Collector Current	IC		50	mA
Collector Current (Pulse)	ICP		100	mA
Collector Dissipation	PC		500	mW
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

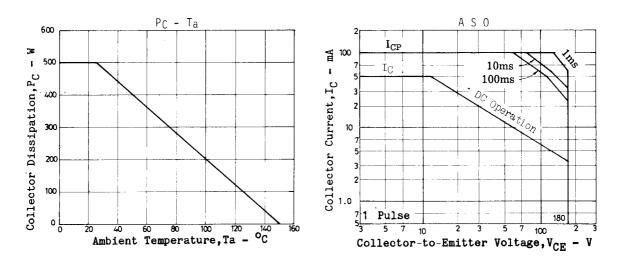
Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions		Ratings				
Falaneter				typ	max	Unit		
Collector Cutoff Current	ICBO	V _{CB} =180V, I _E =0			1.0	μA		
Emitter Cutoff Current	IEBO	V _{EB} =5V, I _C =0			1.0	μA		
DC Current Gain	h _{FE}	V _{CE} =10V, I _C =10mA	40*		320*			
Gain-Bandwidth Product	fT	V _{CE} =30V, I _C =10mA	50			MHz		
Output Capacitance	Cob	V _{CB} =10V, f=1MHz			4.0	pF		
Collector-to-Emitter Saturation Voltage	V _{CE(sat)}	I _C =20mA, I _B =2mA			0.6	V		
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =20mA, I _B =2mA			1.0	V		
* : The 2SC2857 are classified by 10mA h _{FE} as follows : 40 C 80 60 D 120 100 E 200 160 F 320								

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