2SC2857



High-Voltage Driver Applications

Applications

· Color TV vertical driver, sound driver applications.

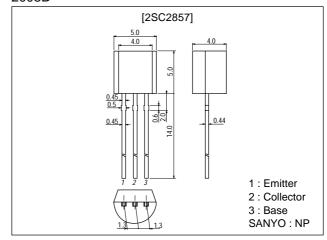
Features

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

Package Dimensions

unit:mm

2003B



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	VCEO		180	V
Emitter-to-Base Voltage	V _{EBO}		5	V
Collector Current	lC		50	mA
Collector Current (Pulse)	I _{CP}		100	mA
Collector Dissipation	PC		500	mW
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

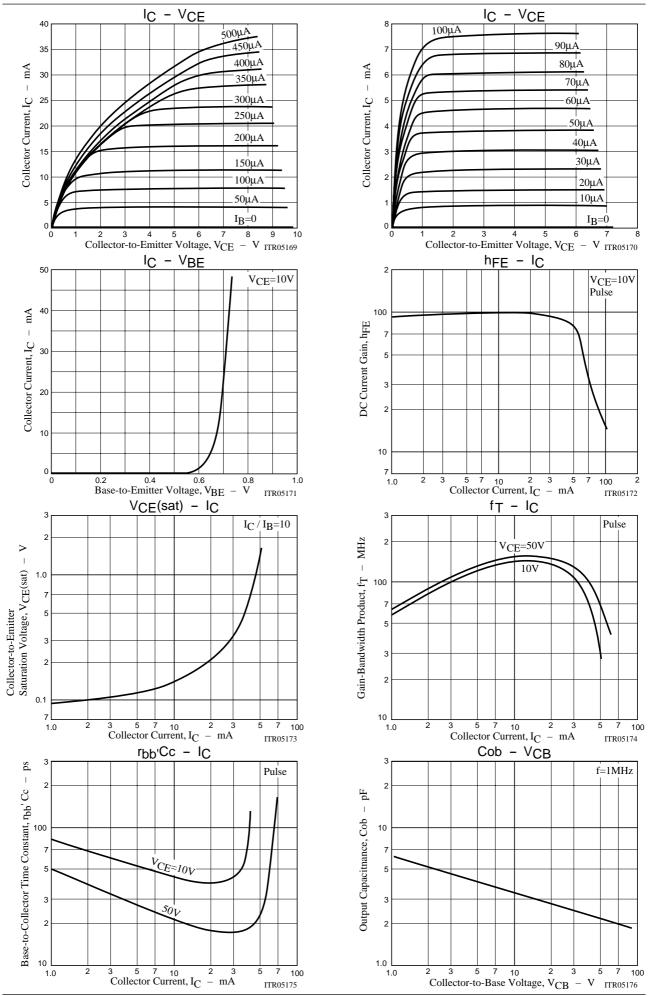
Electrical Characteristics at Ta = 25°C

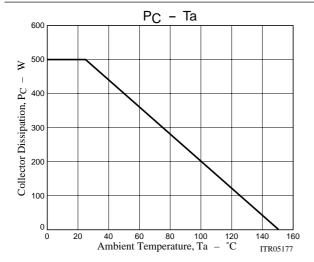
Parameter	Symbol	Conditions	Ratings			Unit
	Symbol	Conditions	min	typ	max	Offic
Collector Cutoff Current	ICBO	V _{CB} =180V, I _E =0			1.0	μΑ
Emitter Cutoff Current	I _{EBO}	V _{EB} =5V, I _C =0			1.0	μΑ
DC Current Gain	hFE	V _{CE} =10V, I _C =10mA	40*		320*	
Gain-Bandwidth Product	fT	V _{CE} =30V, I _C =10mA	50			MHz
Output Capacitance	C _{ob}	V _{CB} =10V, f=1MHz			4.0	pF
Collector-to-Emitter Saturation Voltage	VCE(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

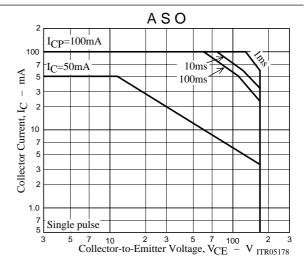
^{*:} The 2SC2857 are classified by 10mA h_{FE} as follows:

Rank	С	D	E	F
h _{FE}	40 to 80	60 to 120	100 to 200	160 to 320

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