

**2SC2857****High-Voltage Driver Applications****Applications**

- Color TV vertical driver, sound driver applications.

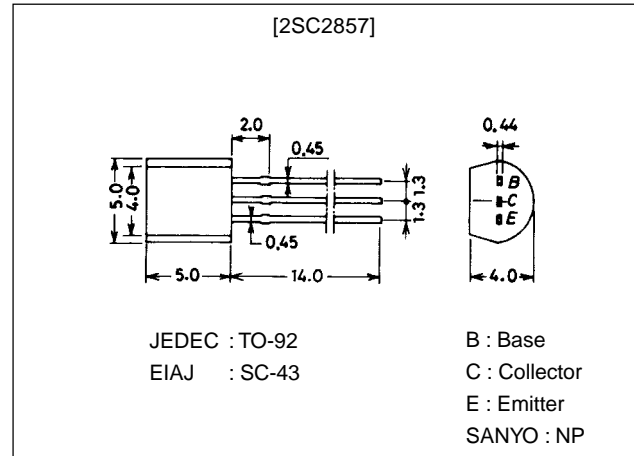
Features

- High breakdown voltage ($V_{CE0} \geq 180V$)
- High collector dissipation ($P_C = 500mW$)

Package Dimensions

unit:mm

2003A

**Specifications****Absolute Maximum Ratings at $T_a = 25^\circ C$**

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	I_C		50	mA
Collector Current (Pulse)	I_{CP}		100	mA
Collector Dissipation	P_C		500	mW
Junction Temperature	T_J		150	$^\circ C$
Storage Temperature	T_{stg}		-55 to +150	$^\circ C$

Electrical Characteristics at $T_a = 25^\circ C$

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector Cutoff Current	I_{CBO}	$V_{CB}=180V, I_E=0$			1.0	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB}=5V, I_C=0$			1.0	μA
DC Current Gain	h_{FE}	$V_{CE}=10V, I_C=10mA$	40*		320*	
Gain-Bandwidth Product	f_T	$V_{CE}=30V, I_C=10mA$	50			MHz
Output Capacitance	C_{ob}	$V_{CB}=10V, f=1MHz$			4.0	pF
Collector-to-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=20mA, I_B=2mA$			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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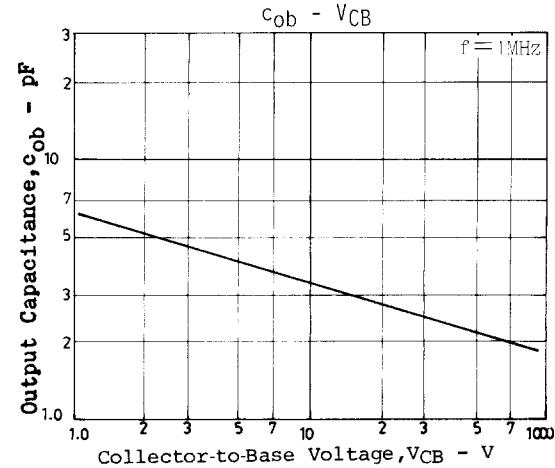
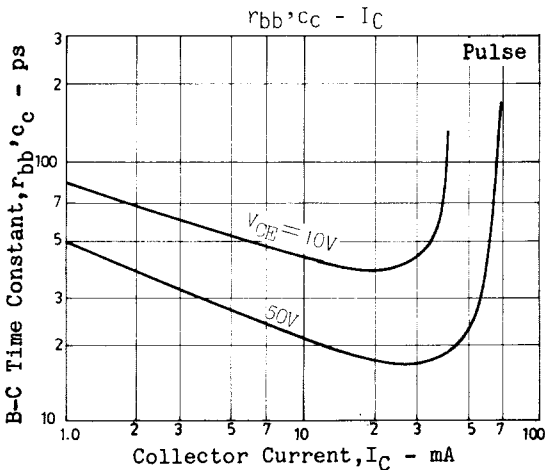
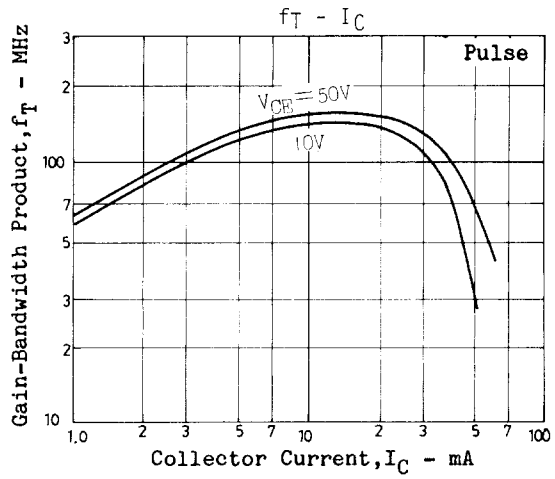
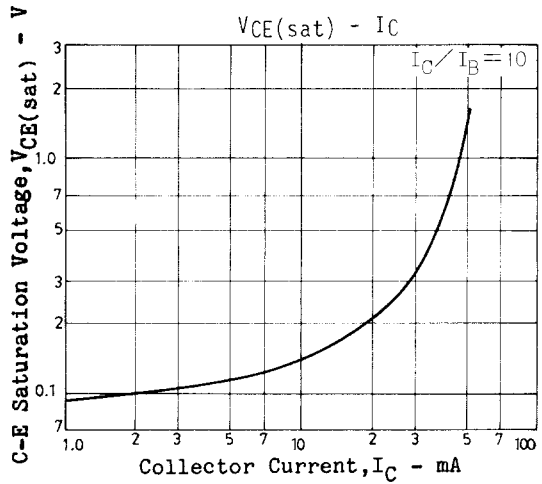
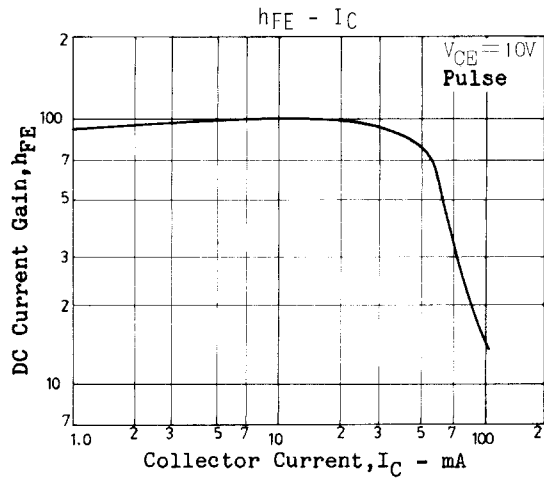
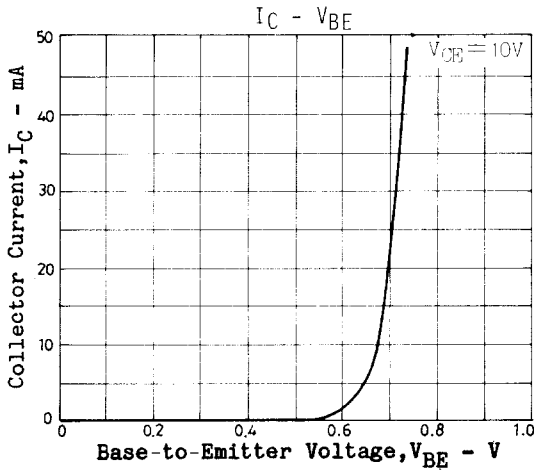
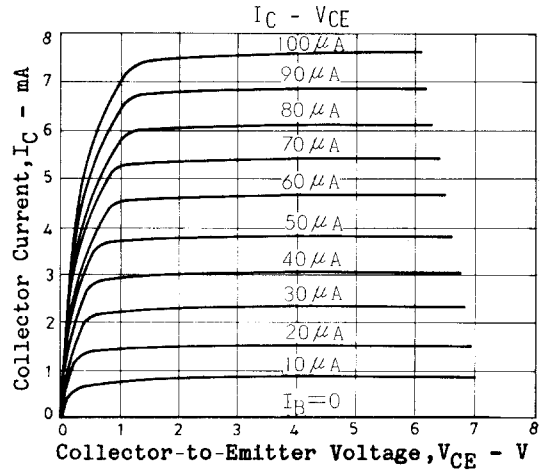
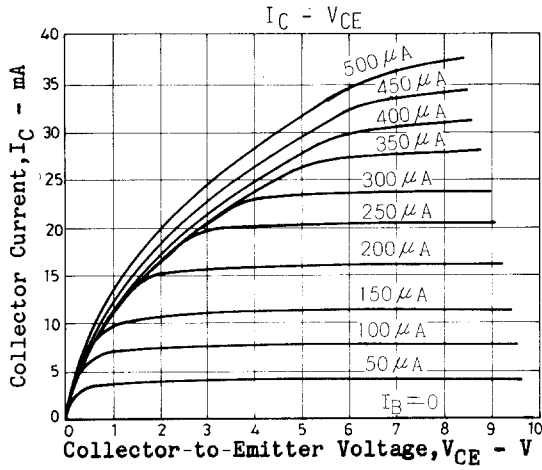
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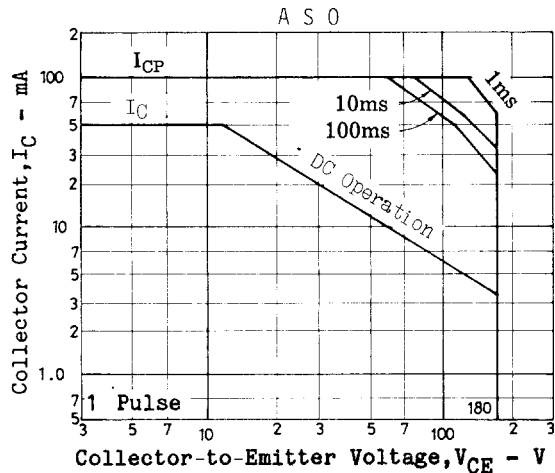
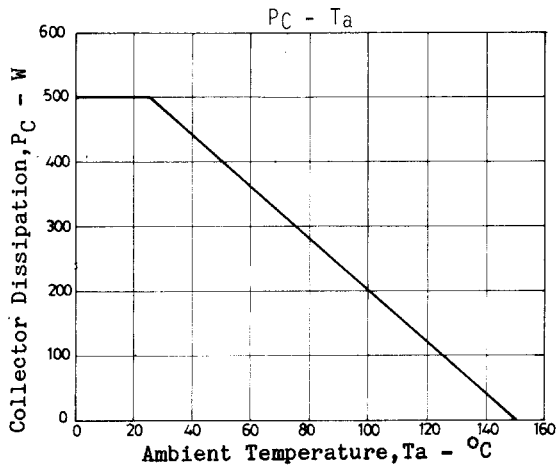
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