



No.753C

2SC2857

NPN Triple Diffused Planar Silicon Transistor

High-Voltage Driver Applications

Applications

- Color TV vertical driver, sound driver applications

Features

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

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

			unit
Collector to Base Voltage	V_{CB0}	180	V
Collector to Emitter Voltage	V_{CE0}	180	V
Emitter to Base Voltage	V_{EB0}	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	$^\circ C$

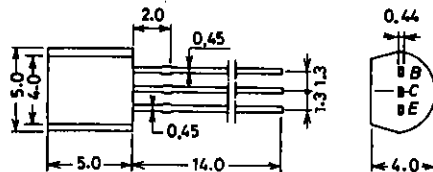
Electrical Characteristics at $T_a=25^\circ C$

			min	typ	max	unit
Collector Cutoff Current	I_{CB0}	$V_{CB}=180V, I_E=0$			1.0	μA
Emitter Cutoff Current	I_{EB0}	$V_{EB}=5V, I_C=0$			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
C-E Saturation Voltage	$V_{CE(sat)}$	$I_C=20mA, I_B=2mA$			0.6	V
B-E Saturation Voltage	$V_{BE(sat)}$	$I_C=20mA, I_B=2mA$			1.0	V

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

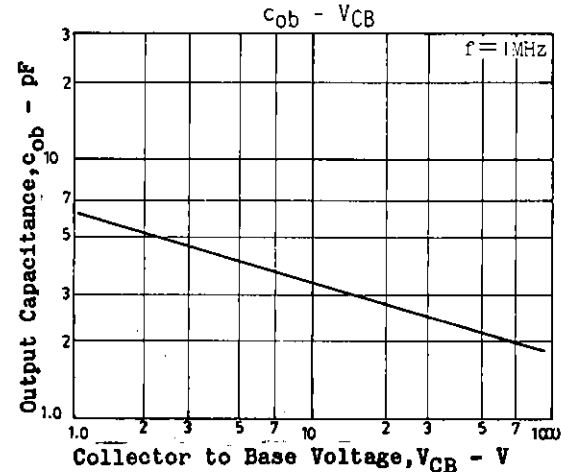
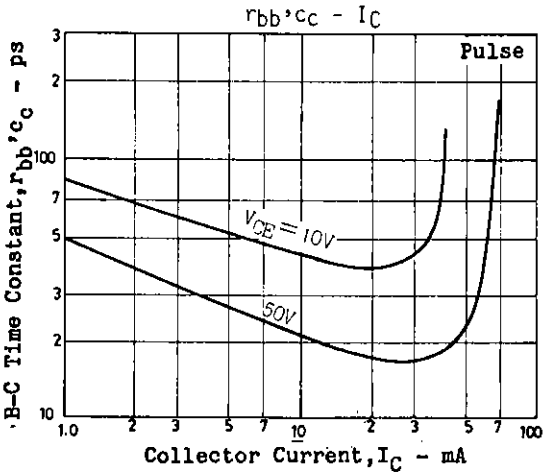
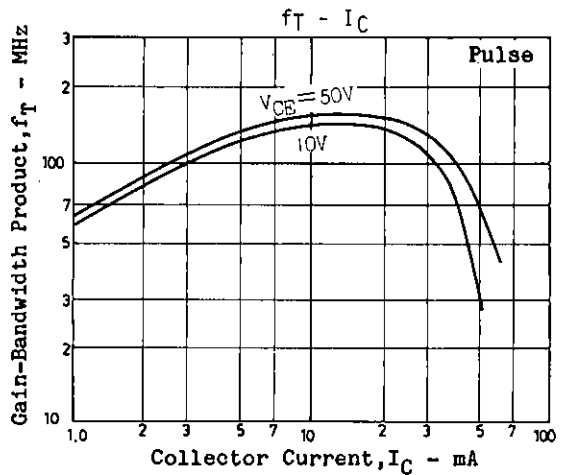
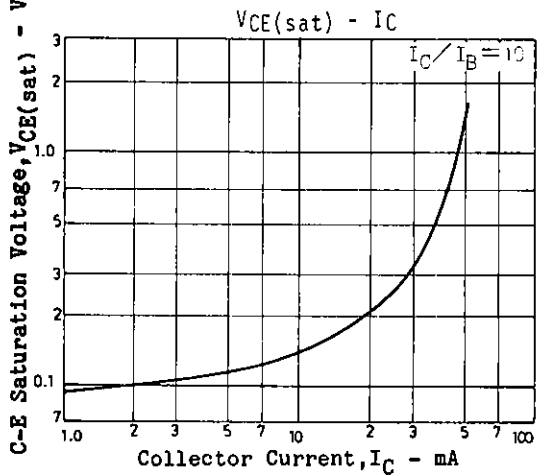
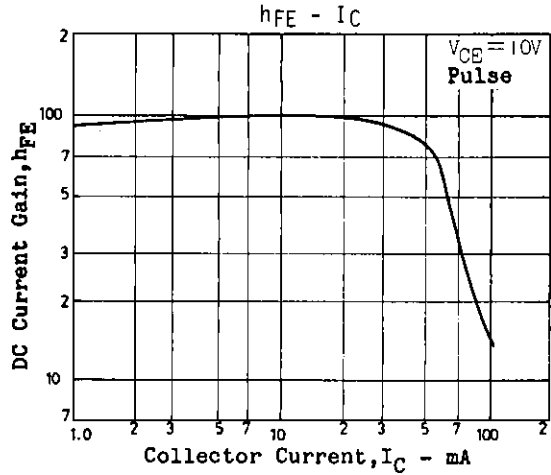
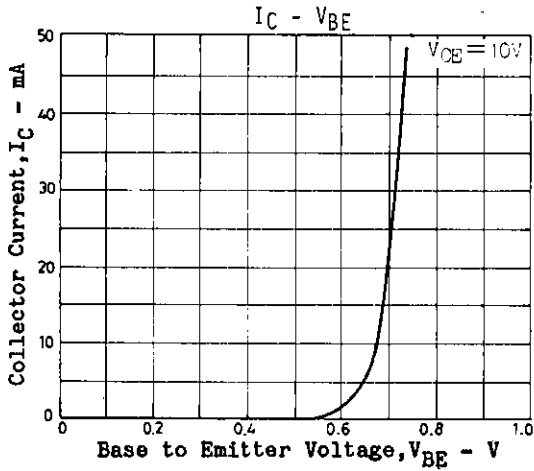
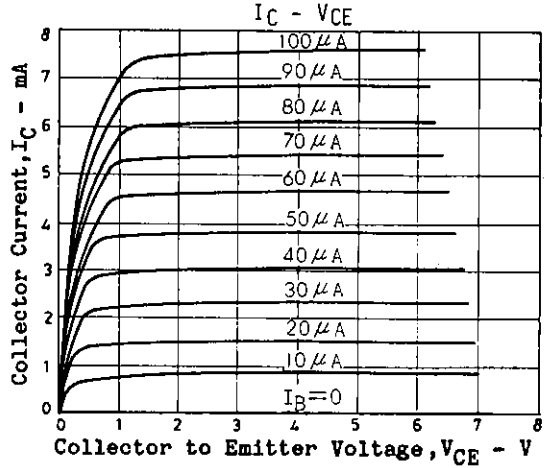
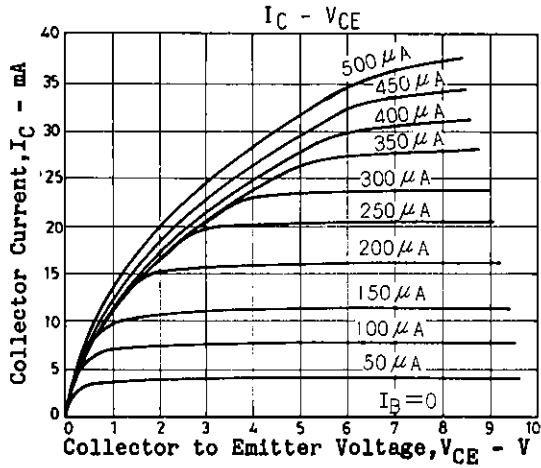
40	C	80	60	D	120	100	E	200	160	F	320
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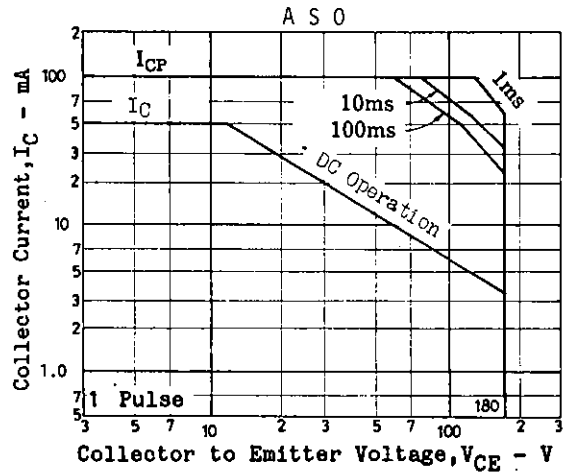
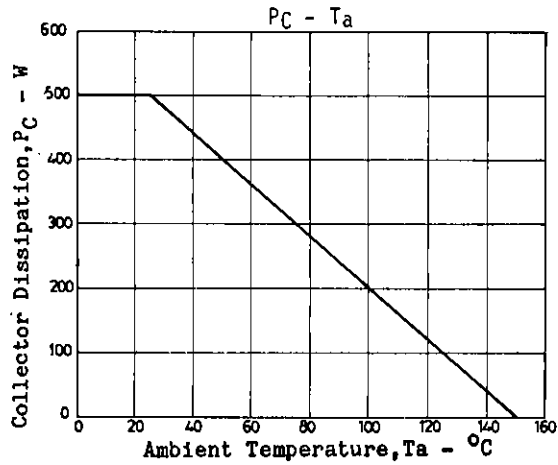
Package Dimensions 2003A
(unit: mm)



JEDEC: TO-92 B: Base
EIAJ : SC-43 C: Collector
SANYO: NP E: Emitter

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