



Shantou Huashan Electronic Devices Co.,Ltd.

PNP SILICON TRANSISTOR

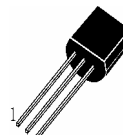
H327**SWITCHING AND AMPLIFIER APPLICATIONS**

Suitable for AF-Driver stages and low power output stages

ABSOLUTE MAXIMUM RATINGS ($T_a=25^\circ\text{C}$)

T_{stg} —Storage Temperature.....	-55~150
T_j —Junction Temperature.....	150
P_C —Collector Dissipation.....	625mW
V_{CBO} —Collector-Base Voltage.....	-50V
V_{CEO} —Collector-Emitter Voltage.....	-45V
V_{EBO} —Emitter-Base Voltage.....	-5V
I_C —Collector Current.....	-500mA

TO-92



1—Collector , C
2—Base , B
3—Emitter , E

ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$)

Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
BV_{CBO}	Collector-Base Breakdown Voltage	-50			V	$I_C=-100\mu\text{A}$, $I_E=0$
BV_{CEO}	Collector-Emitter Breakdown Voltage	-45			V	$I_C=-10\text{mA}$, $I_B=0$
BV_{EBO}	Emitter-Base Breakdown Voltage	-5			V	$I_E=-100\mu\text{A}$, $I_C=0$
I_{CBO}	Collector Cut-off Current			-100	nA	$V_{CB}=-20\text{V}$, $I_E=0$
I_{EBO}	Emitter-Base Cut-off Current			-10	μA	$V_{EB}=-5\text{V}$, $I_C=0$
$h_{FE}(1)$	DC Current Gain	100		600		$V_{CE}=-1\text{V}$, $I_C=-100\text{mA}$
$h_{FE}(2)$		40				$V_{CE}=-1\text{V}$, $I_C=-500\text{mA}$
$V_{CE(sat)}$	Collector- Emitter Saturation Voltage			-0.7	V	$I_C=-500\text{mA}$, $I_B=-50\text{mA}$
$V_{BE(ON)}$	Base-Emitter On Voltage			-1.2	V	$V_{CE}=-1\text{V}$, $I_C=-500\text{mA}$
f_T	Current Gain-Bandwidth Product		100		MHz	$V_{CE}=-5\text{V}$, $I_C=-10\text{mA}$
C_{cbo}	Collector-Base Capacitance		8		pF	$V_{CB}=-10\text{V}$, $I_E=0$ $F=1\text{MHz}$

 h_{FE} Classification

16

25

40

100—250

160—400

250—600



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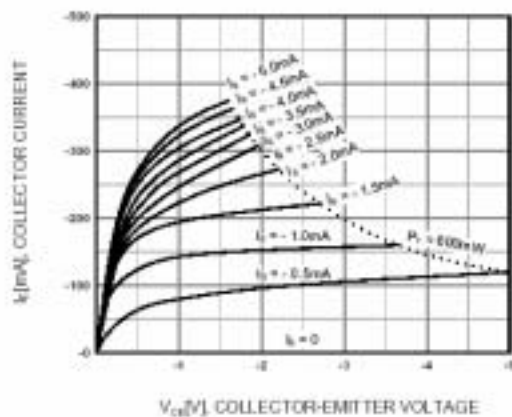
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Figure 1. Static Characteristic

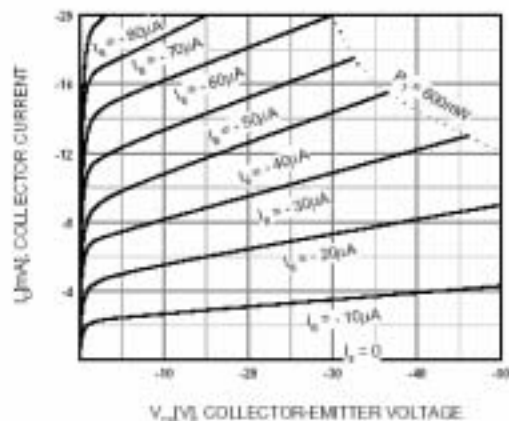


Figure 2. Static Characteristic

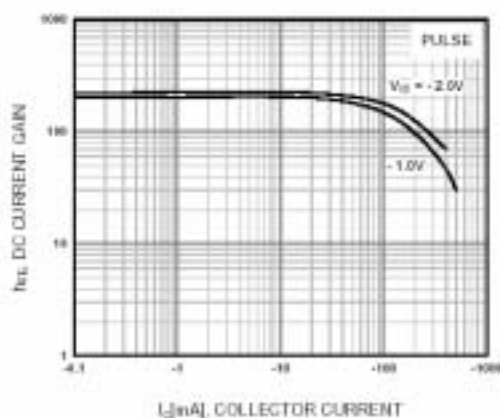


Figure 3. DC current Gain

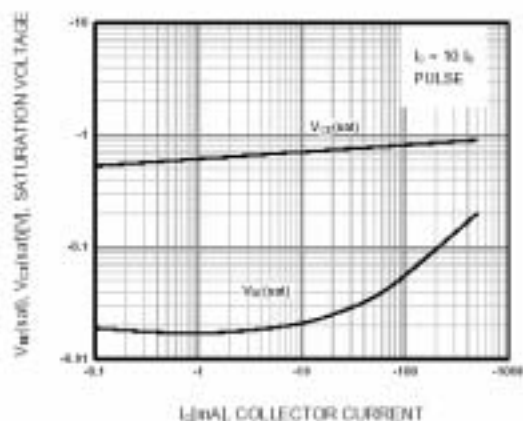
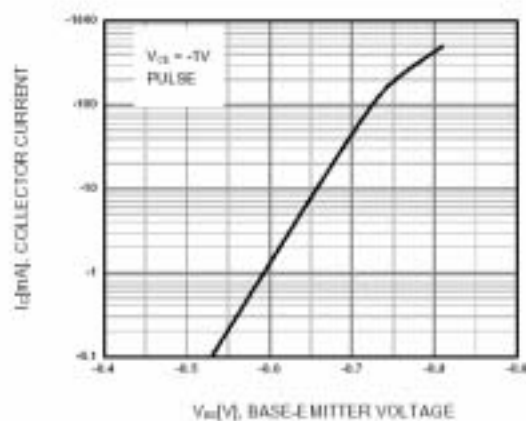
Figure 4. Base-Emitter Saturation Voltage
Collector-Emitter Saturation Voltage

Figure 5. Base-Emitter On Voltage

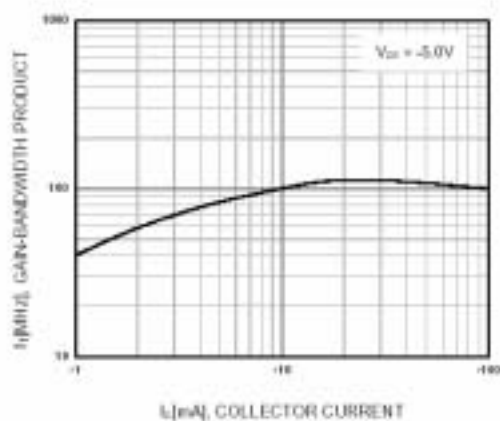


Figure 6. Gain Bandwidth Product