

## TRANSISTOR(PNP)

### FEATURES

- For general amplification
- Complementary to 2SD601A

### MAXIMUM RATINGS ( $T_A=25^{\circ}\text{C}$ unless otherwise noted)

Symbol	Parameter	Value	Units
$V_{CB0}$	Collector-Base Voltage	-45	V
$V_{CEO}$	Collector-Emitter Voltage	-45	V
$V_{EBO}$	Emitter-Base Voltage	-7	V
$I_C$	Collector Current -Continuous	-100	mA
$P_C$	Collector Power Dissipation	200	mW
$T_J$	Junction Temperature	150	$^{\circ}\text{C}$
$T_{stg}$	Storage Temperature	-55-150	$^{\circ}\text{C}$

### SOT-23



1. BASE
2. EMITTER
3. COLLECTOR

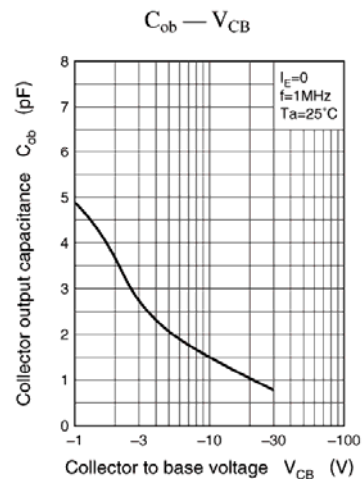
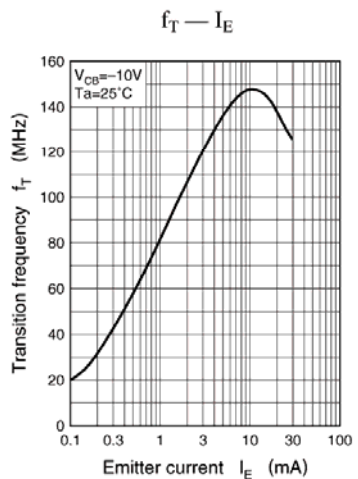
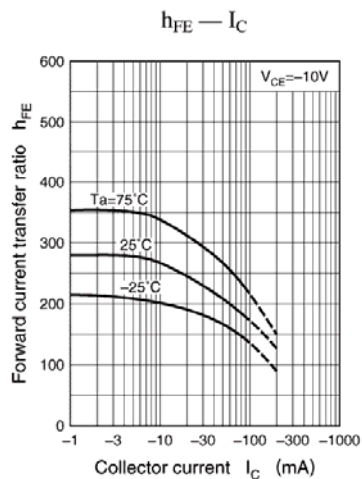
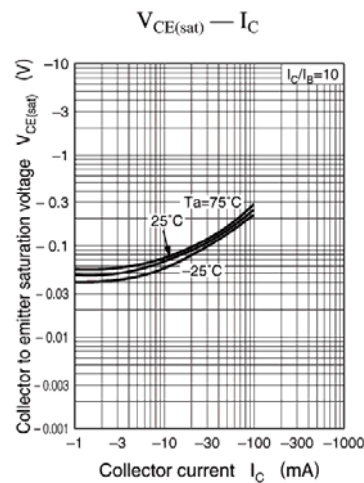
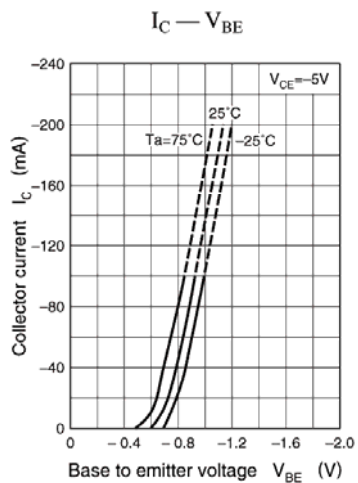
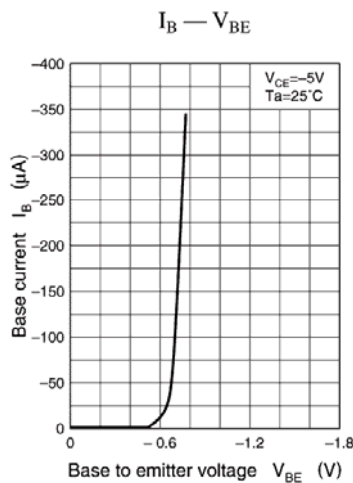
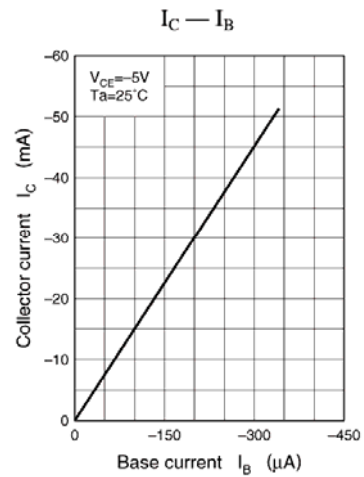
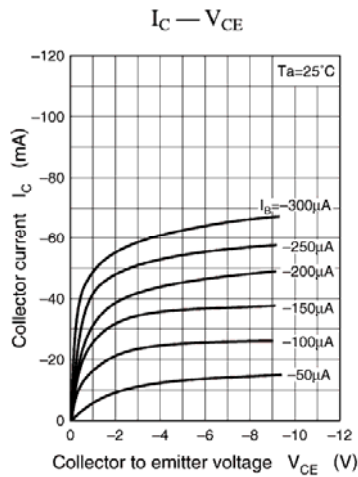
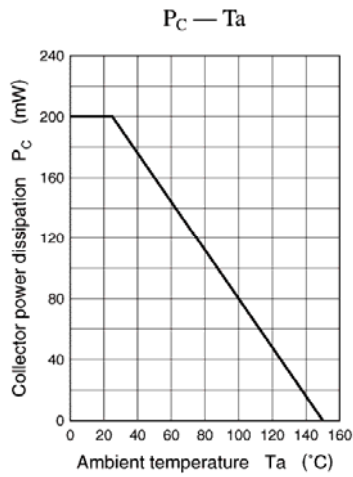
### ELECTRICAL CHARACTERISTICS ( $T_{amb}=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CB0}$	$I_C = -10 \mu\text{A}, I_E = 0$	-45		V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = -2\text{mA}, I_B = 0$	-45		V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E = -10 \mu\text{A}, I_C = 0$	-7		V
Collector cut-off current	$I_{CB0}$	$V_{CB} = -20 \text{V}, I_E = 0$		-0.1	$\mu\text{A}$
Collector cut-off current	$I_{CEO}$	$V_{CE} = -10\text{V}, I_B = 0$		-100	$\mu\text{A}$
DC current gain	$h_{FE}$	$V_{CE} = -10\text{V}, I_C = -2\text{mA}$	160	460	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -100 \text{mA}, I_B = -10\text{mA}$		-0.5	V
Transition frequency	$f_T$	$V_{CE} = -10\text{V}, I_C = -1\text{mA}$ $f = 200\text{MHz}$	60		MHz
Collector output capacitance	$C_{ob}$	$V_{CB} = -10\text{V}, I_E = 0$ $f = 1\text{MHz}$		2.7	pF

### CLASSIFICATION OF $H_{FE}$

Rank	Q	R	S
Range	160-260	210-340	290-460
Marking	BQ1	BR1	BS1

Typical Characteristics



### Typical Characteristics

