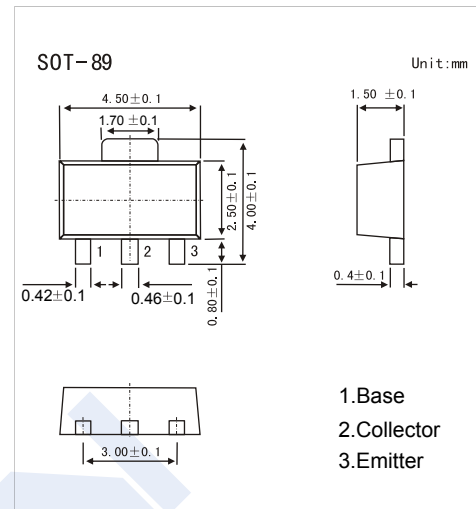


## PNP Transistors

### 2SA1363

#### ■ Features

- High  $h_{FE}$  :  $h_{FE} = 150$  to  $800$
- High Collector Current ( $I_C = -2A$ )
- High Collector Dissipation  $P_C = 500mW$
- Small Package For Mounting
- Complementary to 2SC3443



#### ■ Absolute Maximum Ratings $T_a = 25^\circ C$

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	$V_{CB0}$	-20	V
Collector-Emitter Voltage	$V_{CE0}$	-16	V
Emitter-Base Voltage	$V_{EB0}$	-6	V
Collector Current	$I_C$	-2	A
Peak Collector Current	$I_{CM}$	-3	A
Collector Power Dissipation	$P_C$	500	mW
Junction temperature	$T_j$	150	$^\circ C$
Storage temperature Range	$T_{stg}$	-55 to +150	$^\circ C$

#### ■ Electrical Characteristics $T_a = 25^\circ C$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	$V_{CB0}$	$I_C = -100 \mu A, I_E = 0$	-20			V
Collector- emitter breakdown voltage	$V_{CE0}$	$I_C = -2 mA, I_B = 0$	-16			
Emitter - base breakdown voltage	$V_{EB0}$	$I_E = -100 \mu A, I_C = 0$	-6			
Collector-base cut-off current	$I_{CBO}$	$V_{CB} = -16 V, I_E = 0$			-200	nA
Emitter cut-off current	$I_{EBO}$	$V_{EB} = -4V, I_C = 0$			-200	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -1A, I_B = -50mA$		-0.17	-0.3	V
Base - emitter saturation voltage	$V_{BE(sat)}$	$I_C = -1A, I_B = -50mA$			-1.2	
DC current gain	$h_{FE}$	$V_{CE} = -4V, I_C = -100mA$	150		800	
Collector output capacitance	$C_{ob}$	$V_{CB} = -10V, I_E = 0, f = 1MHz$		42		pF
Transition frequency	$f_T$	$V_{CE} = -2V, I_E = 10mA$		80		MHz

#### ■ Classification of $h_{FE}$

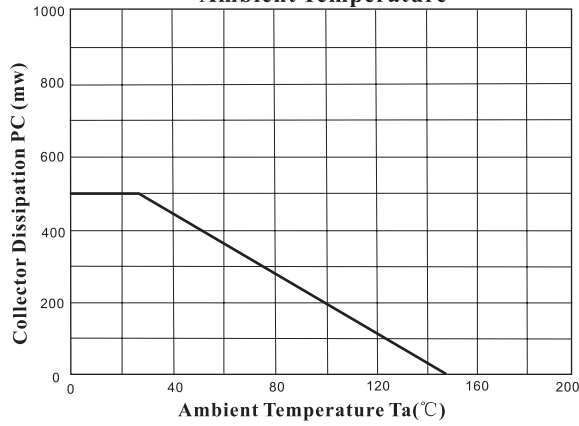
Type	2SA1363-E	2SA1363-F	2SA1363-G
Range	150-300	250-500	400-800
Marking	AE	AF	AG

# PNP Transistors

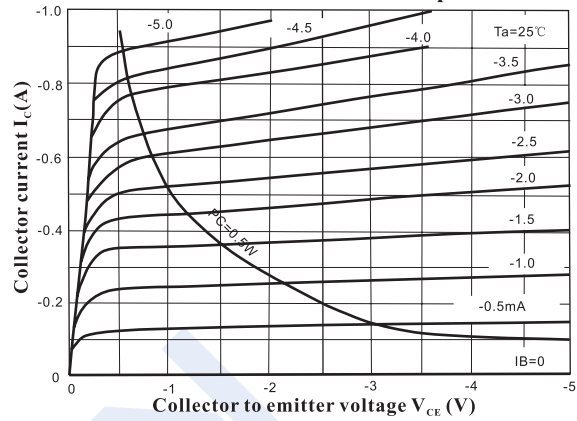
## 2SA1363

■ Typical Characteristics

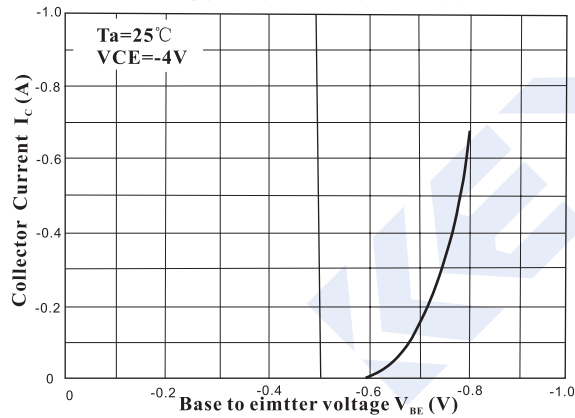
Collector Dissipation vs Ambient Temperature



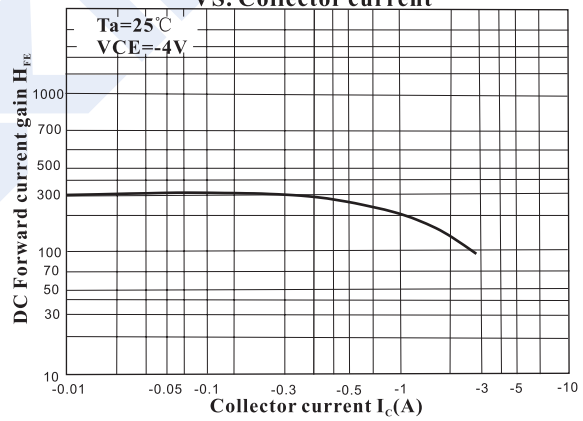
Common emitter output



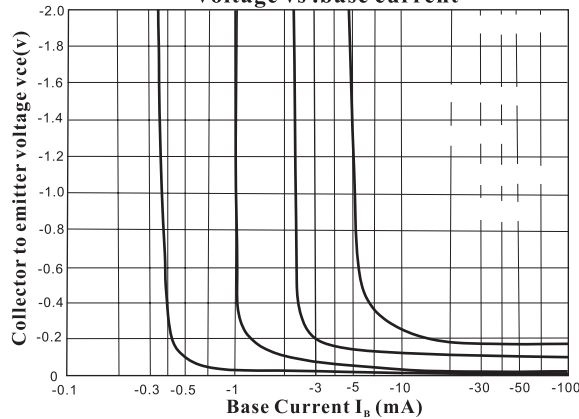
Common Emitter Transfer



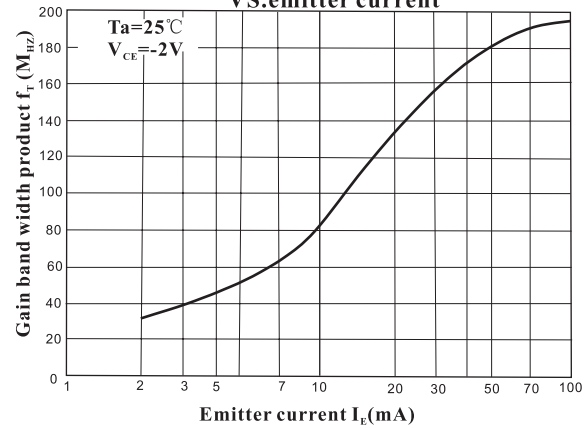
DC Forward current gain VS. Collector current



Collector to emitter saturation Voltage vs. base current



Gain band width product VS. emitter current



## PNP Transistors

## 2SA1363

## ■ Typical Characteristics

