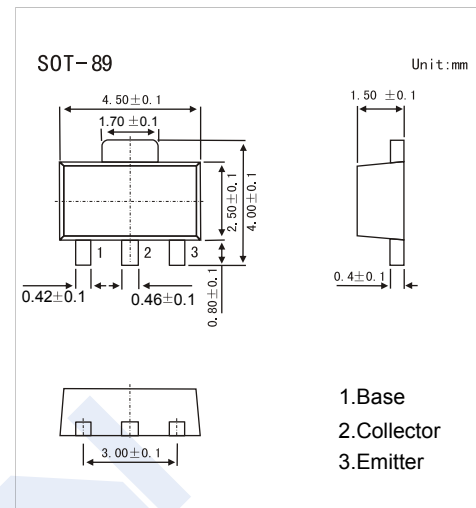


## PNP Transistors

## 2SA1368

## ■ Features

- High Voltage  $V_{CE0} = -100V$
- High Collector Current ( $I_{CM} = -800mA$ )
- High Collector Dissipation  $P_C = 500mW$
- Small Package For Mounting
- Complementary to 2SC3438

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

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	$V_{CB0}$	-100	V
Collector-Emitter Voltage	$V_{CE0}$	-100	V
Emitter-Base Voltage	$V_{EB0}$	-5	V
Collector Current	$I_C$	-500	mA
Peak Collector Current	$I_{CM}$	-800	mA
Collector Power Dissipation	$P_C$	500	mW
Jumction 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	$V_{CB0}$	$I_C = -100 \mu A, I_E = 0$	-100			V
Collector- emitter breakdown voltage	$V_{CE0}$	$I_C = -1 mA, R_{BE} = \infty$	-100			
Emitter - base breakdown voltage	$V_{EB0}$	$I_E = -100 \mu A, I_C = 0$	-5			
Collector-base cut-off current	$I_{CB0}$	$V_{CB} = -50 V, I_E = 0$			-0.1	uA
Emitter cut-off current	$I_{EB0}$	$V_{EB} = -4 V, I_C = 0$			-0.1	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -150 mA, I_B = -15 mA$		-0.15	-0.5	V
Base - emitter saturation voltage	$V_{BE(sat)}$	$I_C = -150 mA, I_B = -15 mA$			-1.2	
DC current gain	$h_{FE}$	$V_{CE} = -10 V, I_C = -10 mA$	55		300	
Collector Output Capacitance	$C_{ob}$	$V_{CE} = -10 V, I_E = 0, f = 1 MHz$		11		pF
Transition frequency	$f_T$	$V_{CE} = -10 V, I_E = 10 mA$		130		MHz

■ Classification of  $h_{fe}$ 

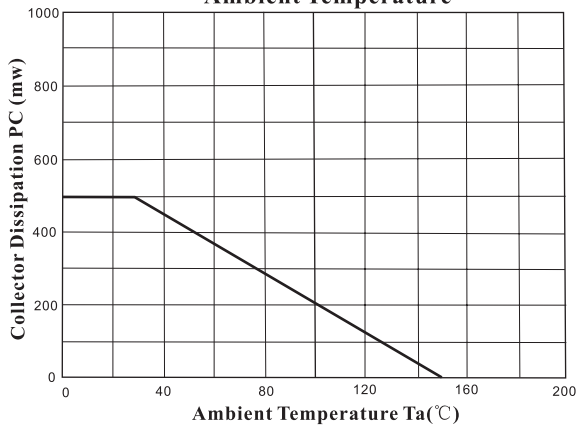
Type	2SA1368-C	2SA1368-D	2SA1368-E
Range	55-110	90-180	150-300
Marking	EC	ED	EE

## PNP Transistors

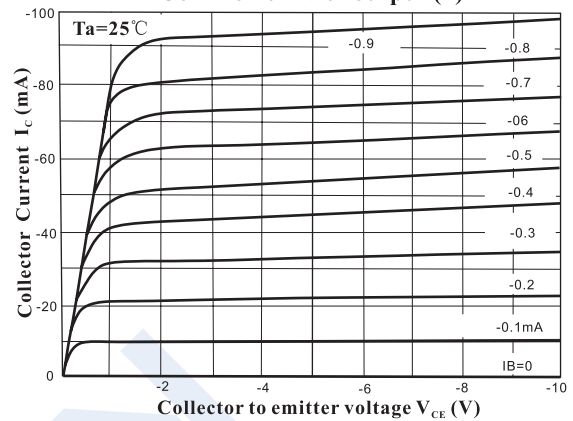
## 2SA1368

## ■ Typical Characteristics

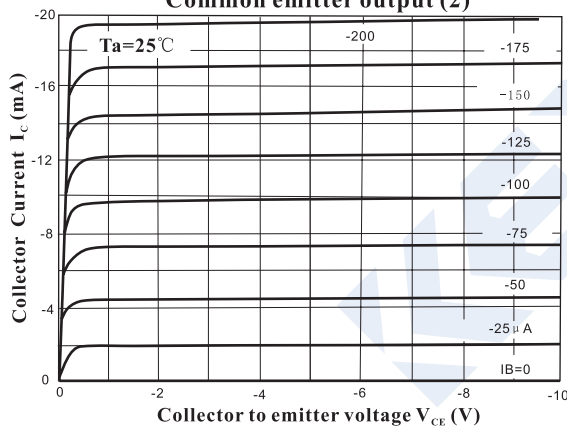
Collector Dissipation vs Ambient Temperature



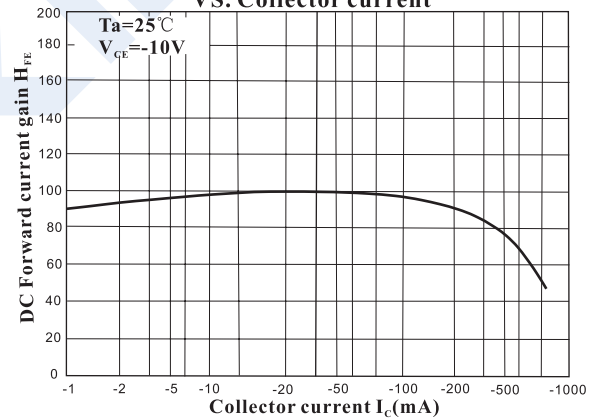
Common emitter output (1)



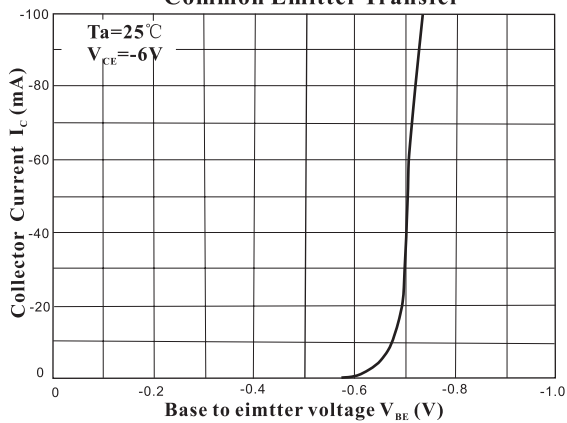
Common emitter output (2)



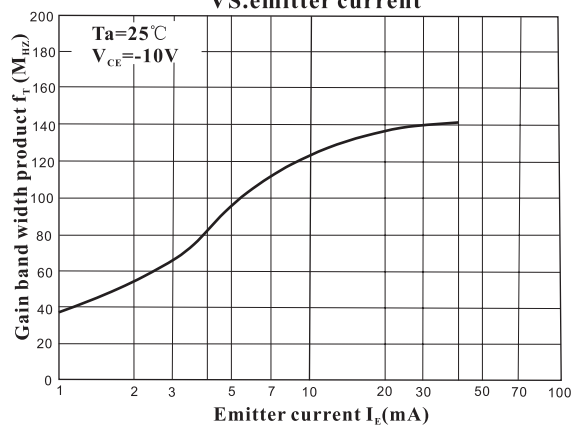
DC Forward current gain VS. Collector current



Common Emitter Transfer



Gain band width product VS. emitter current



## PNP Transistors 2SA1368

### ■ Typical Characteristics

