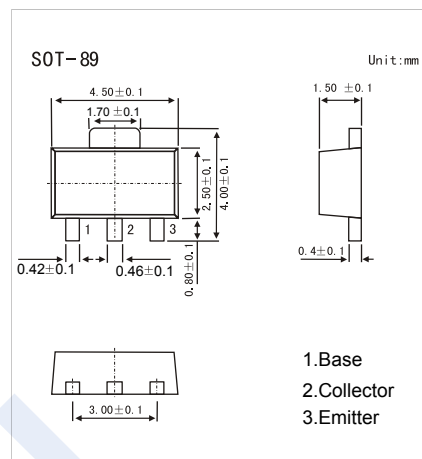


PNP Transistors

2SB1027

■ Features

- Low frequency power amplifier

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

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V_{CB0}	-180	V
Collector - Emitter Voltage	V_{CE0}	-120	
Emitter - Base Voltage	V_{EB0}	-5	
Collector Current - Continuous	I_C	-1.5	A
Collector current -Pulse (Note.1)	I_{CP}	-3	
Collector Power Dissipation	P_C	1	W
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature range	T_{stg}	-55 to 150	

Note.1: $PW \leq 10\text{ms}$, Duty cycle $\leq 20\%$

■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V_{CB0}	$I_C = -1\text{mA}$, $I_E = 0$	-180			V
Collector- emitter breakdown voltage	V_{CE0}	$I_C = -10\text{mA}$, $R_{BE} = \infty$	-120			
Emitter - base breakdown voltage	V_{EB0}	$I_E = -1\text{mA}$, $I_C = 0$	-5			
Collector-base cut-off current	I_{CBO}	$V_{CB} = -160\text{V}$, $I_E = 0$			-10	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = -5\text{V}$, $I_C = 0$			-0.1	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -500\text{mA}$, $I_B = -50\text{mA}$			-1	V
Base - emitter saturation voltage	$V_{BE(sat)}$	$I_C = -500\text{mA}$, $I_B = -50\text{mA}$			-1.2	
Base - emitter voltage	V_{BE}	$V_{CE} = -5\text{V}$, $I_C = -150\text{mA}$			-0.9	
DC current gain	h_{FE}	$V_{CE} = -5\text{V}$, $I_C = -150\text{mA}$	60		320	
		$V_{CE} = -5\text{V}$, $I_C = -500\text{mA}$	30			

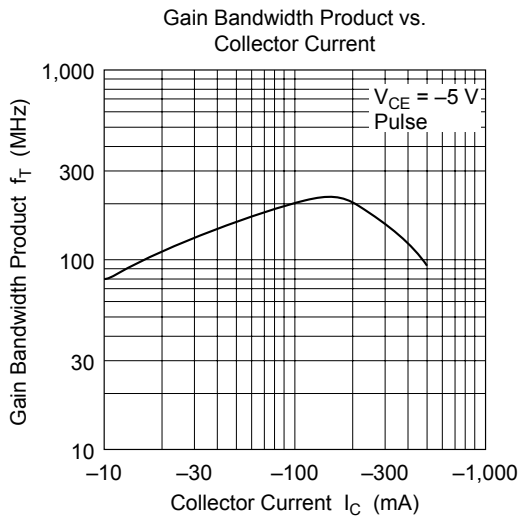
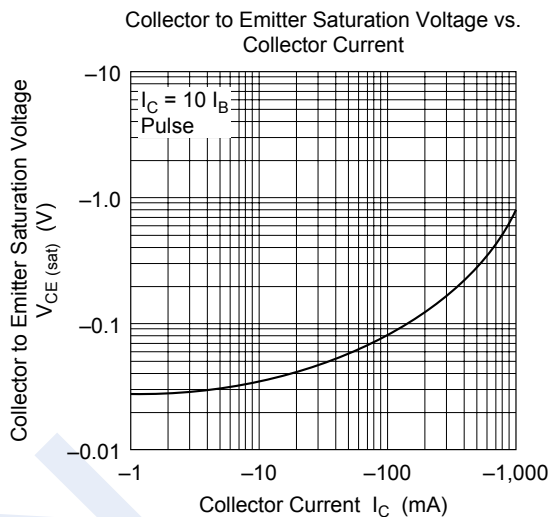
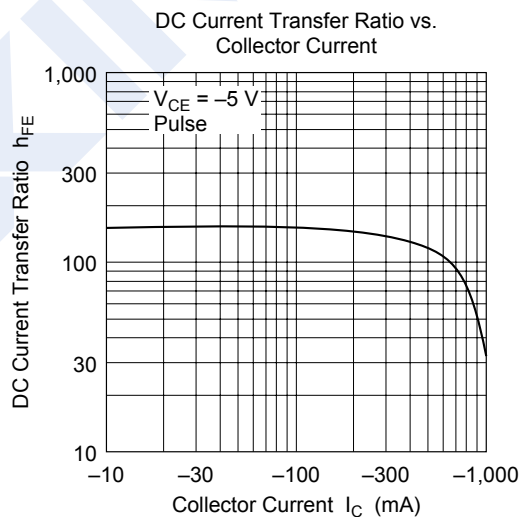
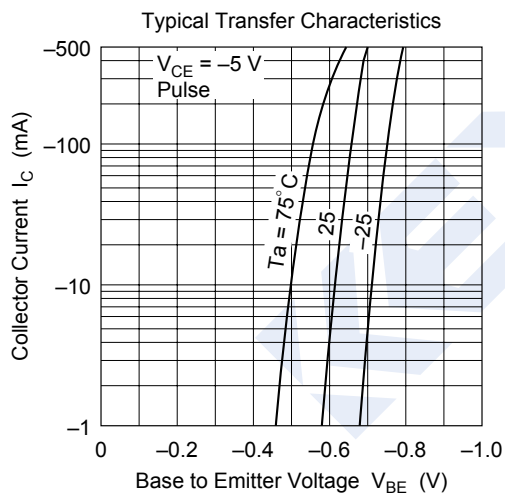
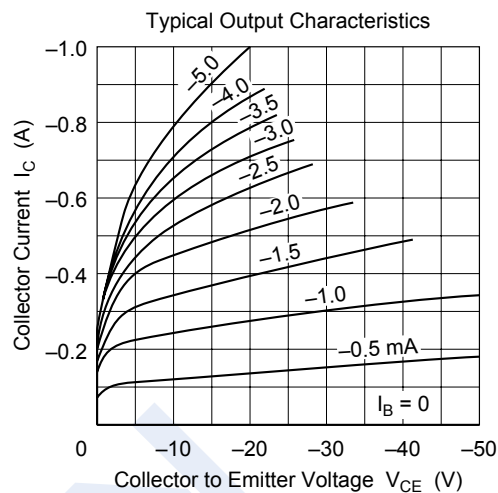
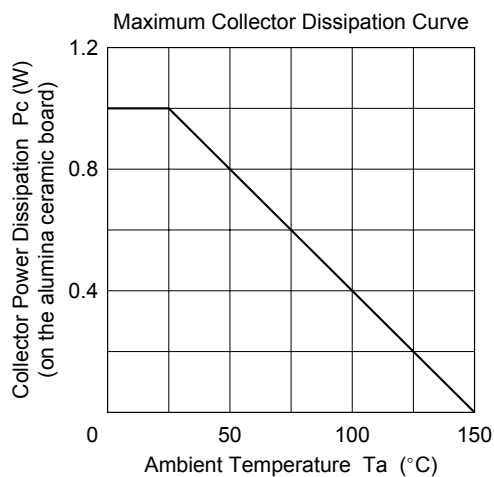
■ Classification of $h_{FE}(1)$

Type	2SB1027-H	2SB1027-J	2SB1027-K
Range	60-120	100-200	160-320
Marking	EH	EJ	EK

PNP Transistors

2SB1027

■ Typical Characteristics



PNP Transistors

2SB1027

■ Typical Characteristics

