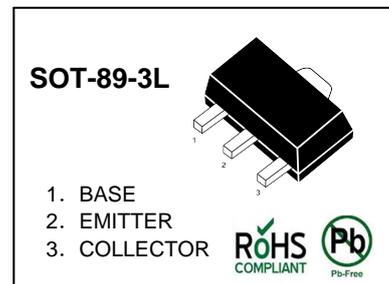


## PNP Transistors

### ■ 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  $\leq 20\%$

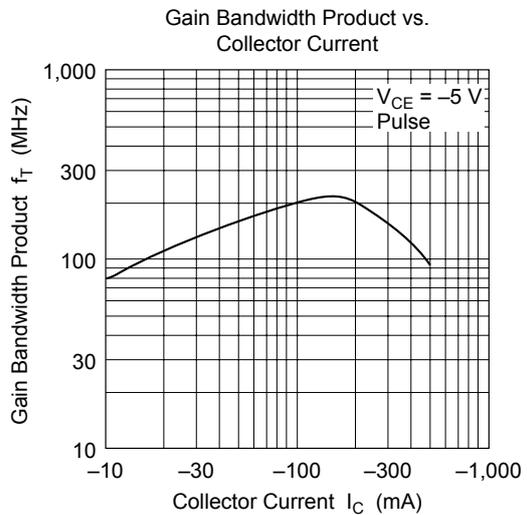
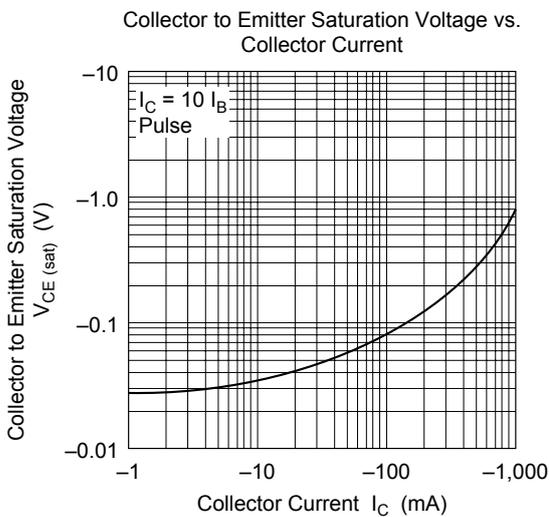
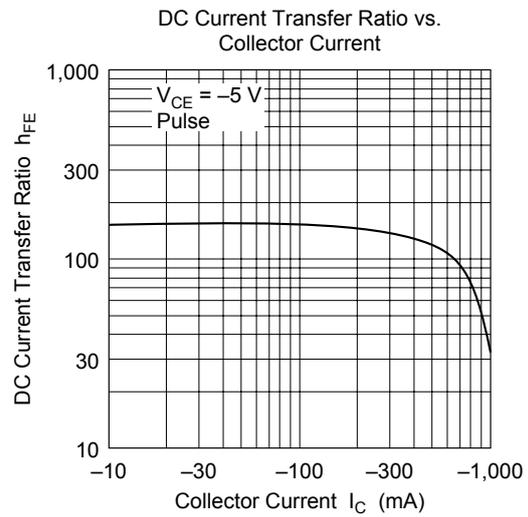
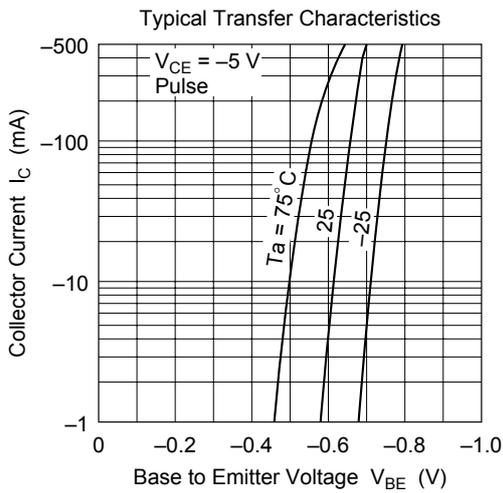
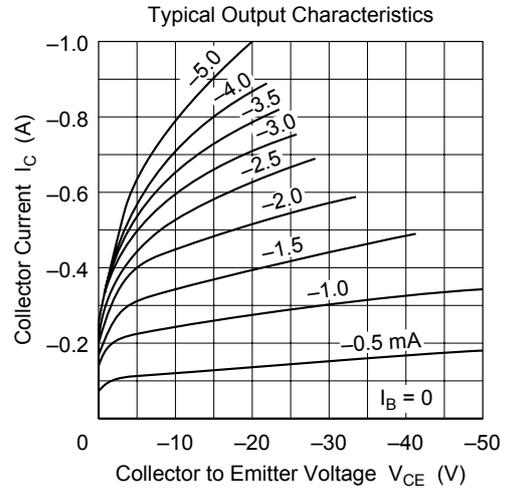
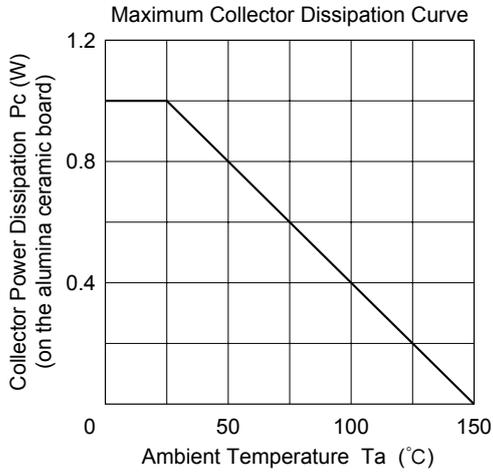
### ■ Electrical Characteristics $T_a = 25^\circ\text{C}$

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	$\mu\text{A}$
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			

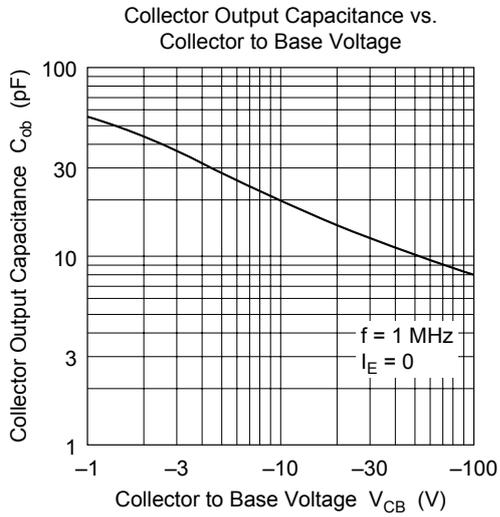
### ■ Classification of $h_{FE}(1)$

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

## Typical Characteristics

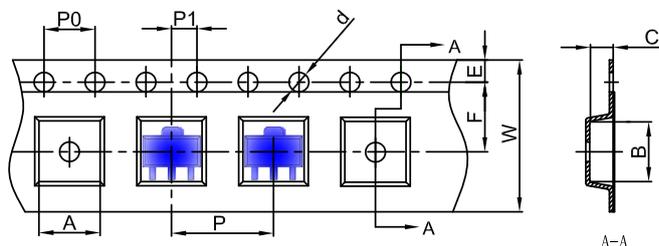


## Typical Characteristics



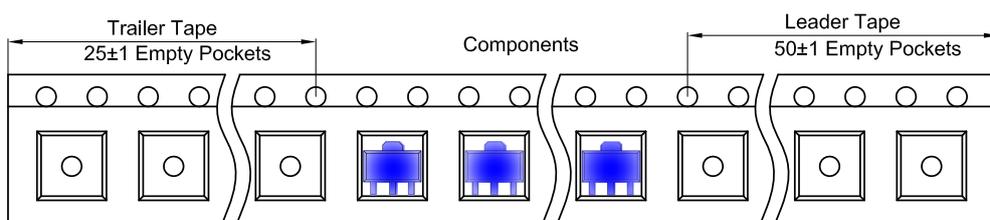
## SOT-89-3L Tape and Reel

### SOT-89-3L Embossed Carrier Tape

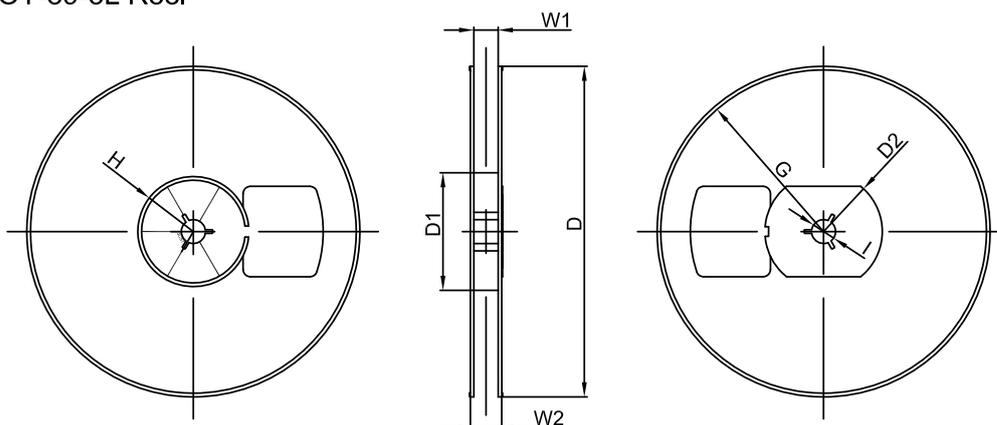


Dimensions are in millimeter										
Pkg type	A	B	C	d	E	F	P0	P	P1	W
SOT-89-3L	4.85	4.45	1.85	Ø1.50	1.75	5.50	4.00	8.00	2.00	12.00

### SOT-89-3L Tape Leader and Trailer

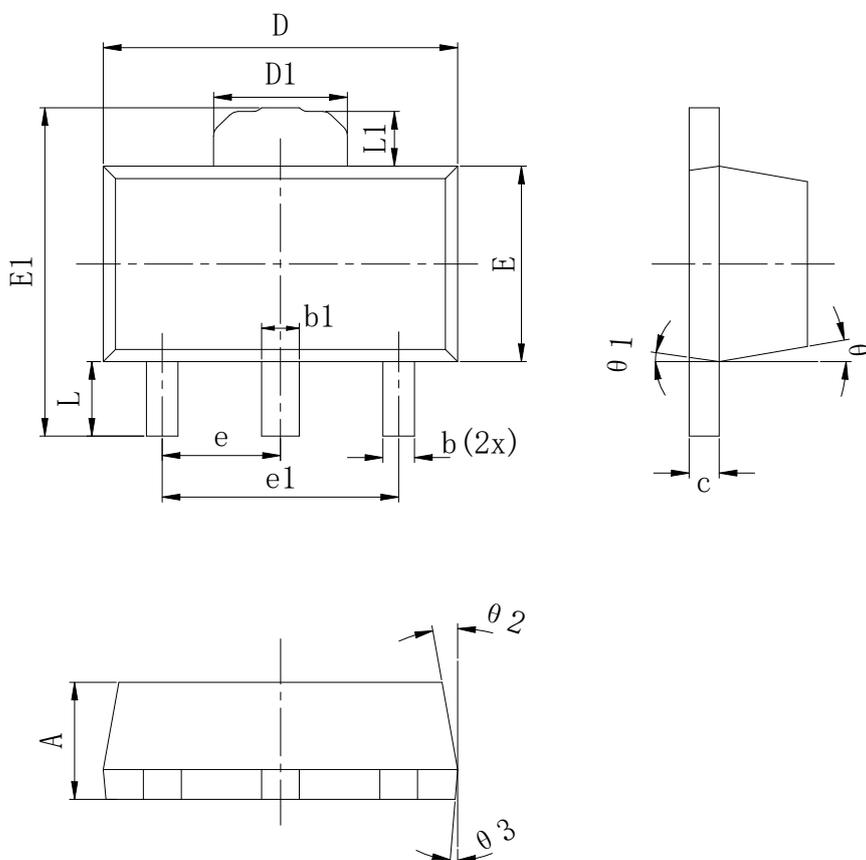


### SOT-89-3L Reel



Dimensions are in millimeter								
Reel Option	D	D1	D2	G	H	I	W1	W2
7" Dia	Ø180.00	60.00	R32.00	R86.50	R30.00	Ø13.00	13.20	16.50

REEL	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
1000 pcs	7 inch	10,000 pcs	203×203×195	40,000 pcs	438×438×220	



SYMBOL	MILLIMETER		
	MIN	TYP.	MAX
A	1.400	1.500	1.600
b	0.320	0.400	0.520
b1	0.400	0.480	0.580
c	0.350	0.381	0.440
D	4.400	4.500	4.600
D1	1.700REF		
E	2.400	2.500	2.600
E1	4.050	4.200	4.350
e	1.500TYP.		
e1	3.000TYP.		
L	0.800	0.950	1.200
L1	0.700REF		
θ	10° REF		
θ 1	8° REF		
θ 2	10° REF		
θ 3	5° REF		

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