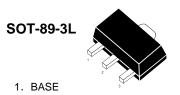


NPN Silicon Epitaxial Planar Transistor

for switching and amplifier applications. Especially suitable for AF-driver stages and low power output stages.



- 2. EMITTER
- 3. COLLECTOR

ROHS Photosephone

Absolute Maximum Ratings (T_a = 25°C)

Parameter	Symbol	Value	Unit
Collector Base Voltage	V _{CBO}	40	V
Collector Emitter Voltage	V_{CEO}	25	V
Emitter Base Voltage	V _{EBO}	6	V
Collector Current	I _C	1.5	А
Power Dissipation	P _{tot}	625	mW
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _{Stg}	- 55 to + 150	°C

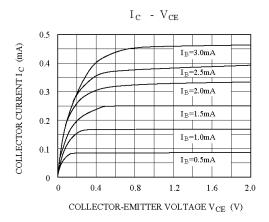
Characteristics at Ta = 25°C

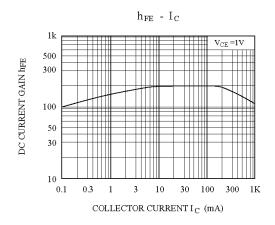
Characteristics at I _a = 25°C							
Parameter	Symbol	Min.	Тур.	Max.	Unit		
DC Current Gain at $V_{CE} = 1 \text{ V}$, $I_C = 5 \text{ mA}$ at $V_{CE} = 1 \text{ V}$, $I_C = 100 \text{ mA}$ Current Gain Group C at $V_{CE} = 1 \text{ V}$, $I_C = 800 \text{ mA}$	h _{FE} h _{FE} h _{FE}	45 120 160 40	- - -	200 300	- - -		
Collector Base Cutoff Current at V _{CB} = 35 V	I _{CBO}	-	-	100	nA		
Emitter Base Cutoff Current at $V_{EB} = 6 \text{ V}$	I _{EBO}	-	-	100	nA		
Collector Base Breakdown Voltage at $I_C = 100 \mu A$	V _{(BR)CBO}	40	-	-	V		
Collector Emitter Breakdown Voltage at $I_C = 2 \text{ mA}$	$V_{(BR)CEO}$	25	-	-	V		
Emitter Base Breakdown Voltage at $I_E = 100 \mu A$	$V_{(BR)EBO}$	6	-	-	V		
Collector Emitter Saturation Voltage at $I_C = 800 \text{ mA}$, $I_B = 80 \text{ mA}$	V _{CE(sat)}	-	-	0.5	V		
Base Emitter Saturation Voltage at $I_C = 800 \text{ mA}$, $I_B = 80 \text{ mA}$	$V_{BE(sat)}$	-	-	1.2	V		
Base Emitter Voltage at $I_C = 10$ mA, $V_{CE} = 1$ V	V_{BE}	-	-	1	V		
Gain Bandwidth Product at $V_{CE} = 10 \text{ V}$, $I_C = 50 \text{ mA}$	f⊤	100	-	-	MHz		
Collector Base Capacitance at $V_{CB} = 10 \text{ V}$, $f = 1 \text{ MHz}$	C _{OB}	-	9	-	pF		

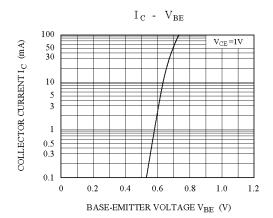
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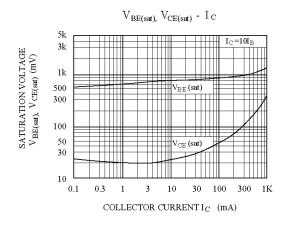


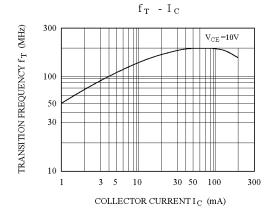
Typical Characteristics

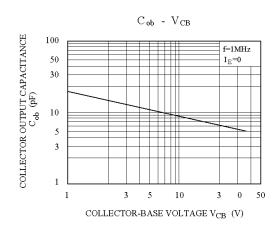










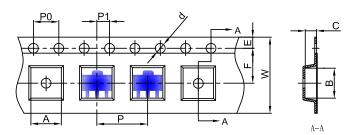


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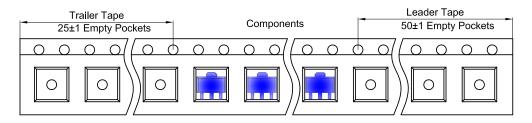
SOT-89-3L Tape and Reel

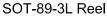
SOT-89-3L Embossed Carrier Tape

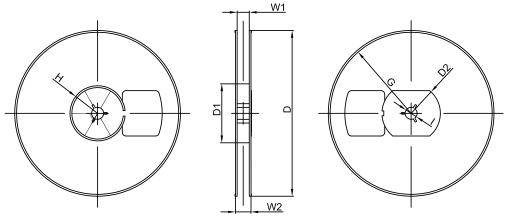


Dimensions are in millimeter										
Pkg type	Α	В	С	d	E	F	P0	Р	P1	W
SOT-89-3L	4.85	4.45	1.85	Ø1.50	1.75	5.50	4.00	8.00	2.00	12.00

SOT-89-3L Tape Leader and Trailer



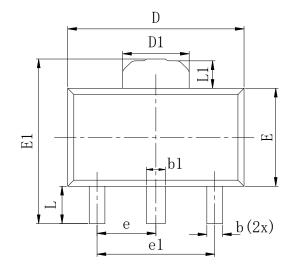


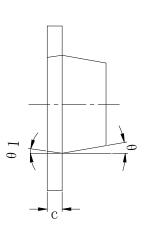


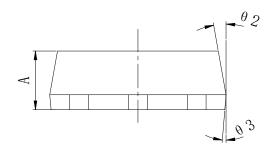
	Dimensions are in millimeter							
Reel Option	D	D1	D2	G	Н	I	W1	W2
7"Dia	Ø180.00	60.00	R32.00	R86.50	R30.00	Ø13.00	13.20	16.50

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	

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CVMDOI	MILLIMETER					
SYMBOL	MIN	TYP.	MAX			
A	1.400	1.500	1.600			
b	0.320	0.400	0. 520			
b1	0.400	0.480	0.580			
С	0.350	0. 381	0.440			
D	4. 400	4. 500	4.600			
D1	1. 700REF					
Е	2. 400	2. 500	2.600			
E1	4.050	4. 200	4. 350			
е	1. 500TYP.					
e1	3. 000ТҮР.					
L	0.800	0.950	1. 200			
L1	0. 700REF					
θ	10° REF					
θ 1	8° REF					
θ2	10° REF					
θ 3	5° REF					

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