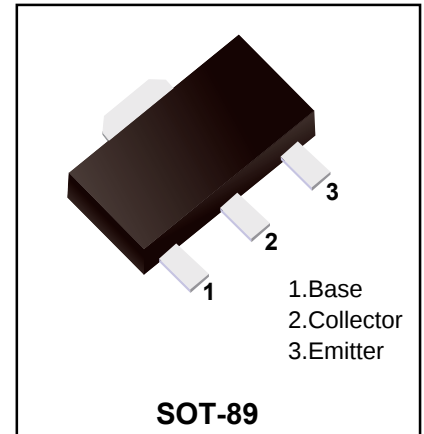


PNP Transistors

Features

- Excellent DC current gain
- Low collector-emitter saturation voltage
- Complementary to 2SD2150



Absolute Maximum Rating (Ta=25°C)

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	VCBO	-20	V
Collector - Emitter Voltage	VCEO	-20	
Emitter - Base Voltage	VEBO	-6	
Collector Current - Continuous	IC	-3	A
Collector Power Dissipation	PC	500	mW
Thermal Resistance From Junction To Ambient	RθJA	250	°C/W
Junction Temperature	TJ	150	°C
Storage Temperature range	Tstg	-55 to 150	

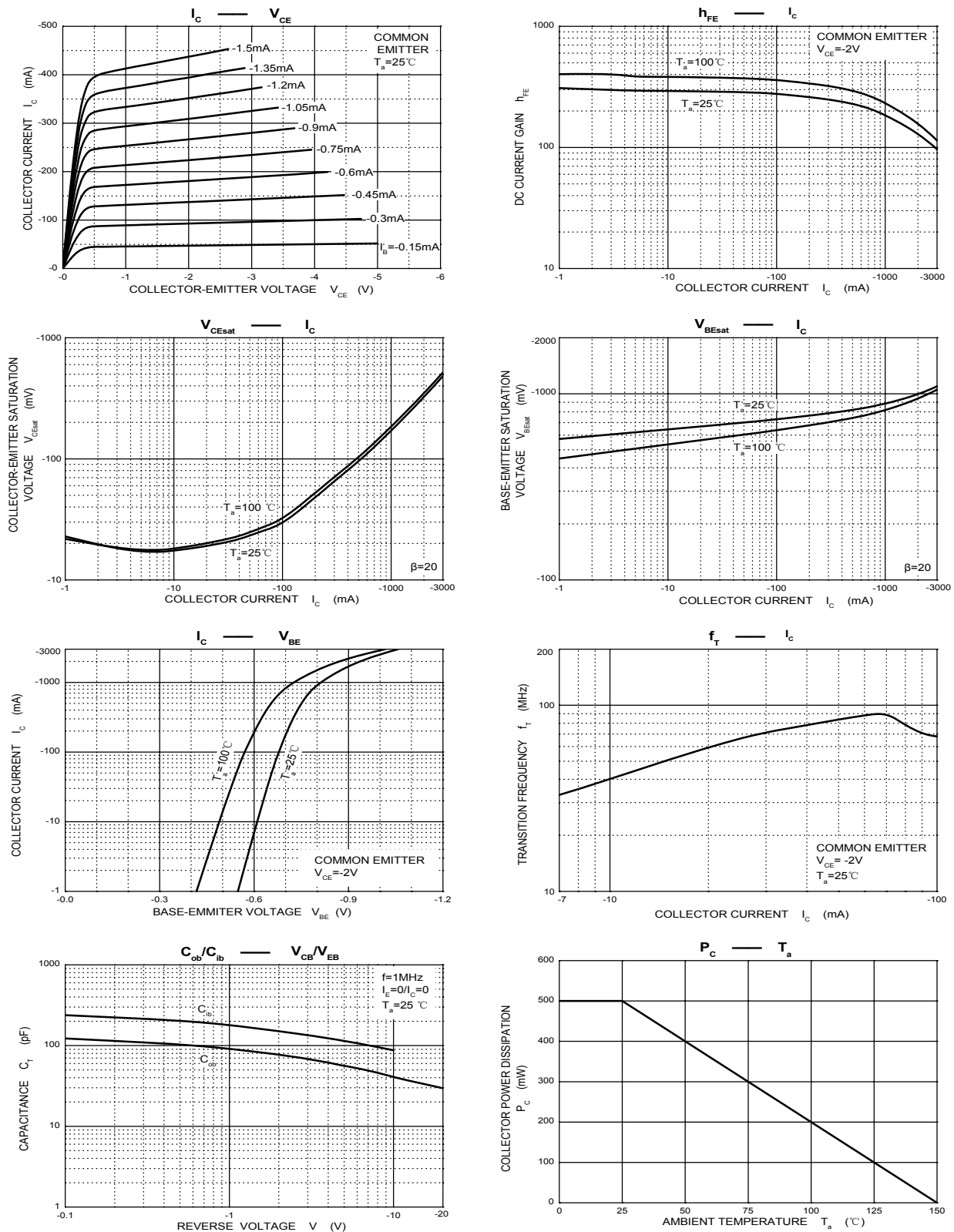
Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	VCBO	IC= -100 uA, IE=0	-20			V
Collector- emitter breakdown voltage	VCEO	IC= -1 mA, IB=0	-20			
Emitter - base breakdown voltage	VEBO	IE= -100 uA, IC=0	-6			
Collector-base cut-off current	ICBO	VCB= -20V, IE=0			-0.1	uA
Emitter cut-off current	IEBO	VEB= -5V, IC=0			-0.1	
Collector-emitter saturation voltage	VCE(sat)	IC=-2 A, IB=-100 mA			-0.5	V
Base - emitter saturation voltage	VBE(sat)	IC=-2 A, IB=-100 mA			-1.2	
DC current gain	hFE	VCE= -2V, IC= -100 mA	120		390	
Collector output capacitance	Cob	VCB= -10V, IE= 0,f=1MHz		35		pF
Transition frequency	fT	VCE= -2V, IC= -500 mA,f=100MHz		240		MHz

hFE Classification

Type	2SB1424-Q	2SB1424-R
Range	120-270	180-390
Marking	AEQ	AER

Typical Characteristics



Ordering information

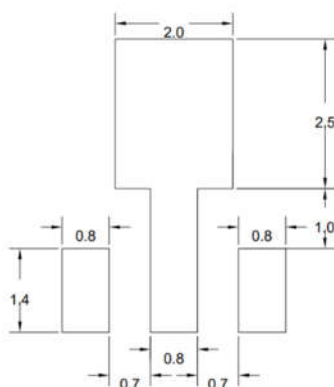
Package	Packing Description	Base Quantity	Packing Quantity
SOT-89	Tape/Reel, 7" reel	1000pcs/Reel	6000PCS/Box 30000PCS/Carton

Package Dimensions

SOT-89

Dim	Millimeter		Inches	
	Min.	Max.	Min.	Max.
A	1.40	1.60	0.055	0.063
b	0.32	0.52	0.013	0.020
b1	0.38	0.58	0.015	0.023
c	0.35	0.45	0.014	0.018
D	4.40	4.60	0.173	0.181
D1	1.45	1.65	0.057	0.065
D2	1.70	1.80	0.067	0.071
E	2.30	2.60	0.091	0.102
E1	3.95	4.25	0.156	0.167
E2	1.80	2.00	0.071	0.079
e	1.40	1.60	0.055	0.063
e1	2.80	3.20	0.110	0.126
L	0.90	1.20	0.035	0.047

The recommended mounting pad size



UNIT:MM

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