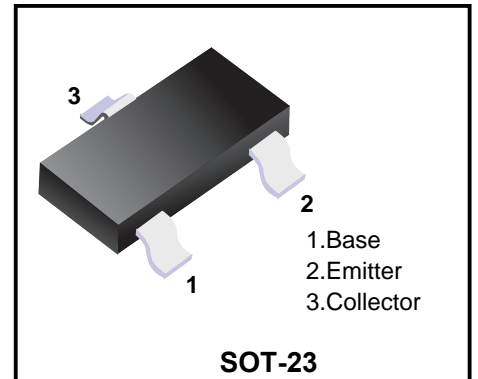


PNP Transistors



Features

- Collector Current Capability $I_C = -0.8A$
- Collector Emitter Voltage $V_{CE0} = -30V$
- Low Frequency Power Amplifier Application
- Power Switching Applications
- Complementary to 2SC3265

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V_{CBO}	-35	V
Collector - Emitter Voltage	V_{CEO}	-30	
Emitter - Base Voltage	V_{EBO}	-5	
Collector Current - Continuous	I_C	-800	mA
Collector Power Dissipation	P_C	200	mW
Thermal Resistance From Junction To Ambient	$R_{\theta JA}$	625	°C/W
Junction Temperature	T_J	150	°C
Storage Temperature range	T_{stg}	-55 to 150	

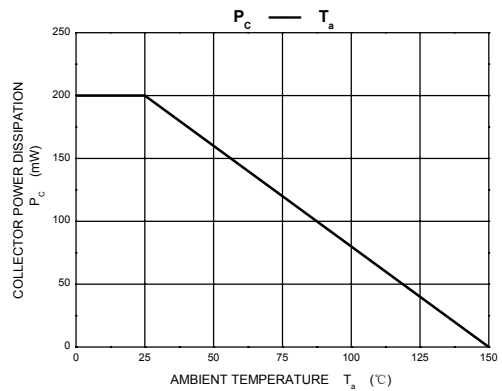
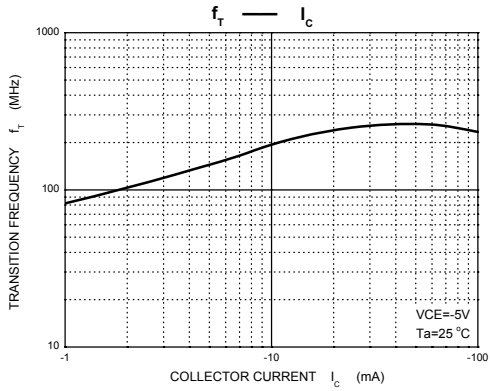
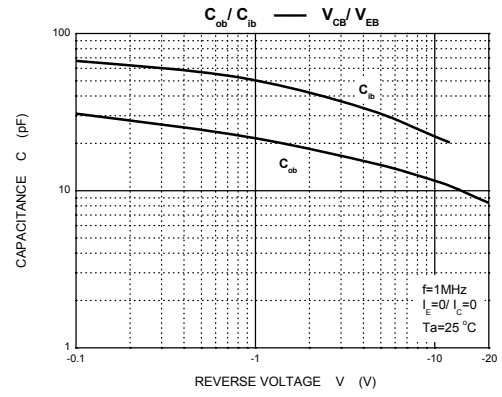
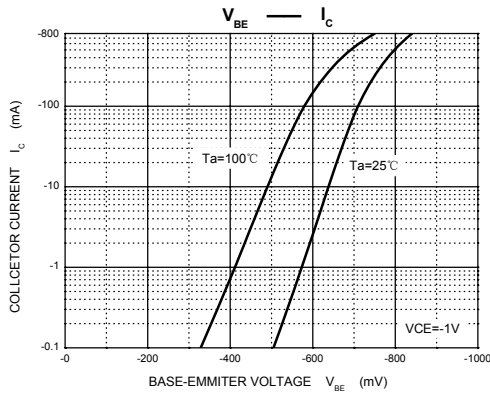
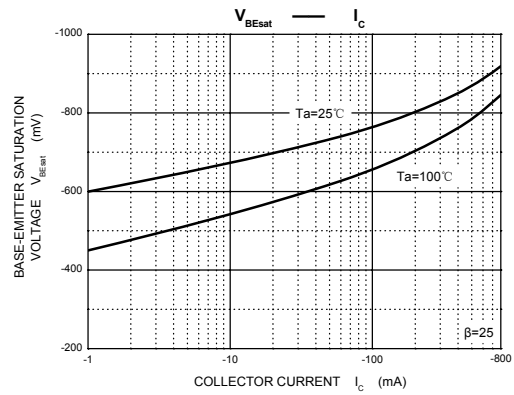
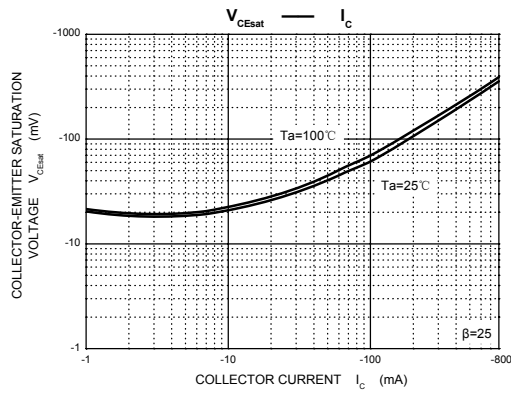
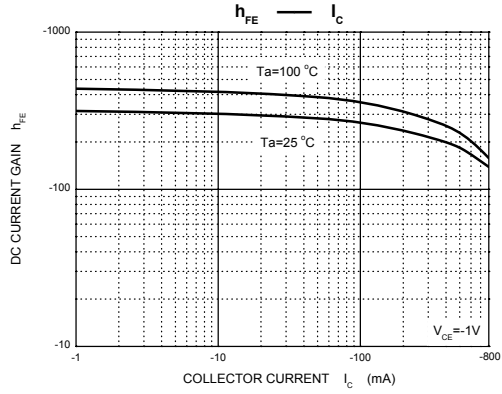
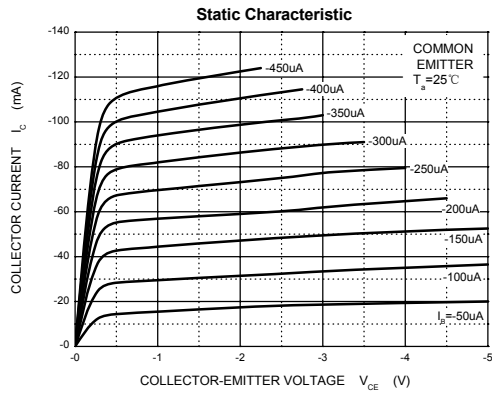
Electrical Characteristics (Ta=25°C unless otherwise specified.)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V_{CBO}	$I_C = -1mA, I_E = 0$	-35			V
Collector- emitter breakdown voltage	V_{CEO}	$I_C = -10mA, I_B = 0$	-30			
Emitter - base breakdown voltage	V_{EBO}	$I_E = -1mA, I_C = 0$	-5			
Collector-base cut-off current	I_{CBO}	$V_{CB} = -30V, I_E = 0$			-0.1	uA
Emitter cut-off current	I_{EBO}	$V_{EB} = -5V, I_C = 0$			-0.1	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -500mA, I_B = -20mA$			-0.4	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C = -500mA, I_B = -20mA$			-1.2	
Base - emitter voltage	V_{BE}	$V_{CE} = -1V, I_C = -10mA$			-0.8	
DC current gain	$h_{FE(1)}$	$V_{CE} = -1V, I_C = -100mA$	100		320	
	$h_{FE(2)}$	$V_{CE} = -1V, I_C = -800mA$	40			
Collector output capacitance	C_{ob}	$V_{CB} = -6V, I_E = 0, f = 1MHz$		13		pF
Transition frequency	f_T	$V_{CE} = -5V, I_C = -10mA$		120		MHz

h_{FE} Classification

Type	2SA1298-O	2SA1298-Y
Range	100-200	160-320
Marking	IO	IY

Typical Characteristics



Ordering information

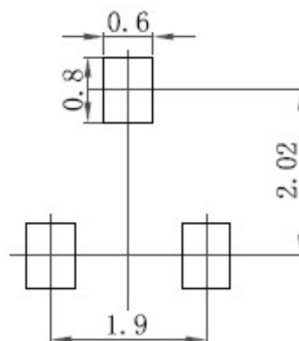
Package	Packing Description	Base Quantity	Packing Quantity
SOT-23	Tape/Reel,7"reel	3000pcs/Reel	24000PCS/Box 120000PCS/Carton

Package Dimensions

SOT-23

Dim.	Millimeter (mm)		mil	
	Min.	Max.	Min.	Max.
A	0.9	1.15	35	45
A1	0.1		3.9	
bp	0.38	0.48	15	19
C	0.09	0.15	3.54	5.9
D	2.8	3.0	110	118
E	1.2	1.4	47	55
E	1.9		75	
E1	0.95		37	
HE	2.1	2.55	83	100
Lp	0.15	0.45	5.9	18
Q	0.45	0.55	18	22
v	0.2		7.9	
W	0.1		4	

The recommended mounting pad size



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