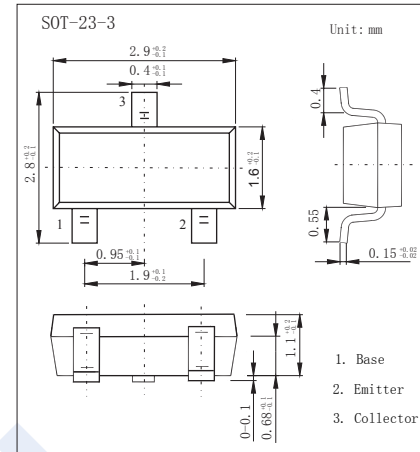


PNP Transistors

2SA1298-HF

■ 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-HF
- Pb-Free Package May be Available. The G-Suffix Denotes a Pb-Free Lead Finish

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

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V_{CB0}	-35	V
Collector - Emitter Voltage	V_{CE0}	-30	
Emitter - Base Voltage	V_{EB0}	-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	$^\circ C/W$
Junction Temperature	T_J	150	$^\circ C$
Storage Temperature range	T_{stg}	-55 to 150	

■ Electrical Characteristics $T_a = 25^\circ C$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V_{CB0}	$I_C = -1mA, I_E = 0$	-35			V
Collector- emitter breakdown voltage	V_{CE0}	$I_C = -10 mA, I_B = 0$	-30			
Emitter - base breakdown voltage	V_{EB0}	$I_E = -1mA, I_C = 0$	-5			
Collector-base cut-off current	I_{CBO}	$V_{CB} = -30 V, I_E = 0$			-0.1	uA
Emitter cut-off current	I_{EBO}	$V_{EB} = -5V, I_C = 0$			-0.1	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -500 mA, I_B = -20mA$			-0.4	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C = -500 mA, I_B = -20mA$			-1.2	
Base - emitter voltage	V_{BE}	$V_{CE} = -1V, I_C = -10 mA$			-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

■ Classification of $h_{FE(1)}$

Type	2SA1298-O-HF	2SA1298-Y-HF
Range	100-200	160-320
Marking	IO_F	IY_F

PNP Transistors

2SA1298-HF

■ Typical Characteristics

