

<http://onsemi.com>

(-50V, (-)150mA, Low VCE(sat) (PNP)NPN Single NPA-WA

- Capable of being used in the low frequency to high frequency range

- Large current capacity and wide ASO

Absolute Maximum Ratings at Ta=25°C

Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

7542-001



Device	Package	Shipping	memo
2SA608NF-NPA-AT	NPA SC-43A, TO-92, TO-226AA, SOT-54	1,500 pcs./box	Pb-Free
2SA608NG-NPA-AT	NPA SC-43A, TO-92, TO-226AA, SOT-54	1,500 pcs./box	
2SC536NF-NPA-AT	NPA SC-43A, TO-92, TO-226AA, SOT-54	1,500 pcs./box	
2SC536NG-NPA-AT	NPA SC-43A, TO-92, TO-226AA, SOT-54	1,500 pcs./box	

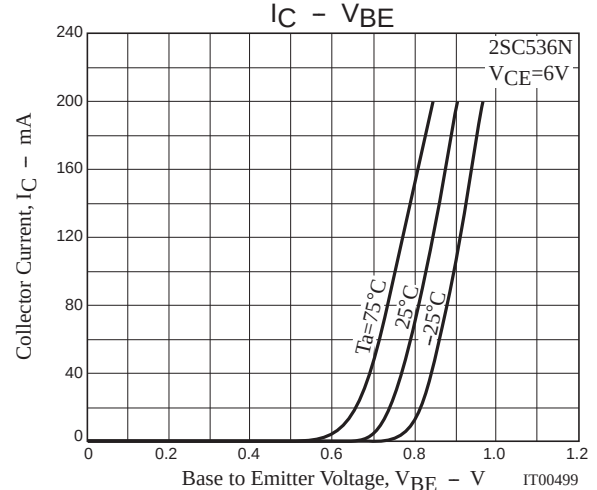
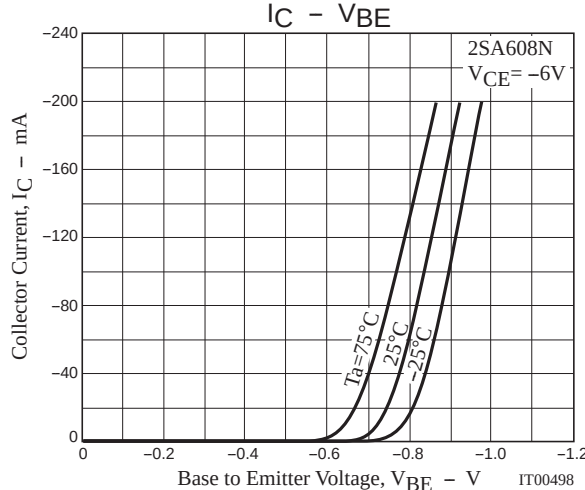
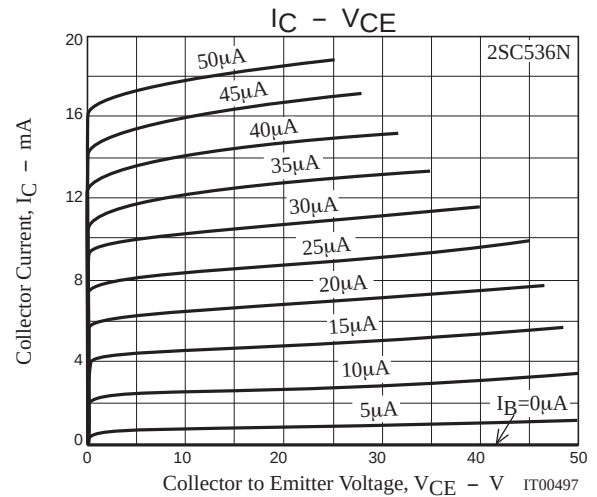
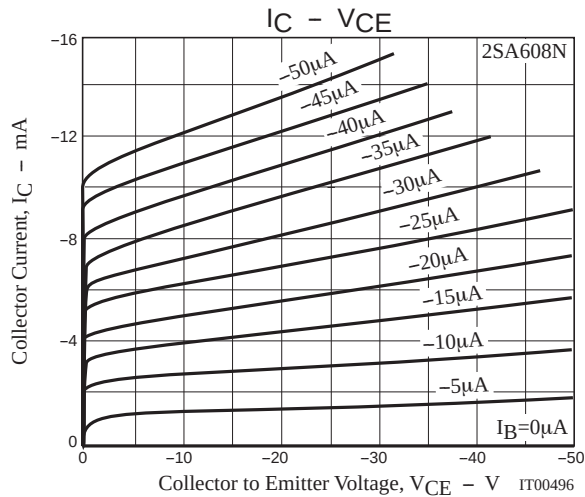
2SA608N/2SC536N

Electrical Characteristics at Ta=25°C

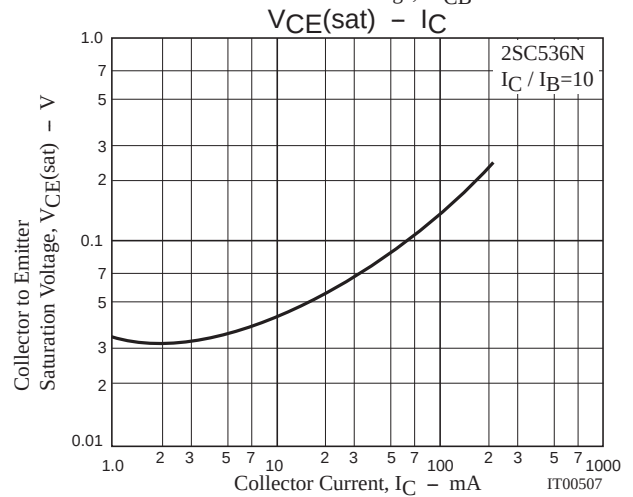
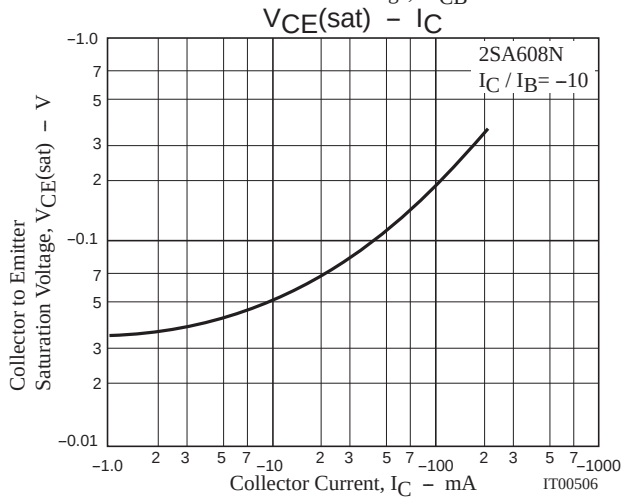
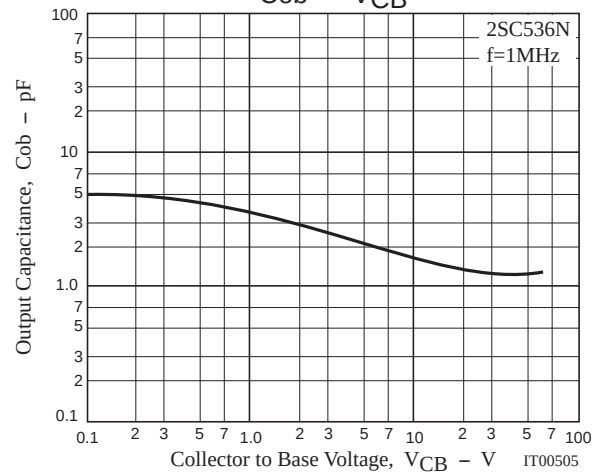
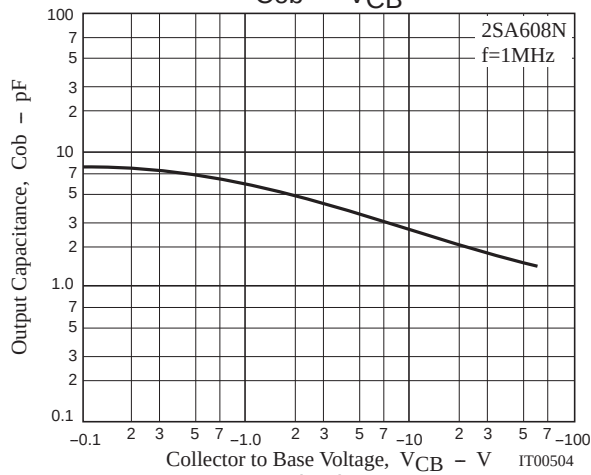
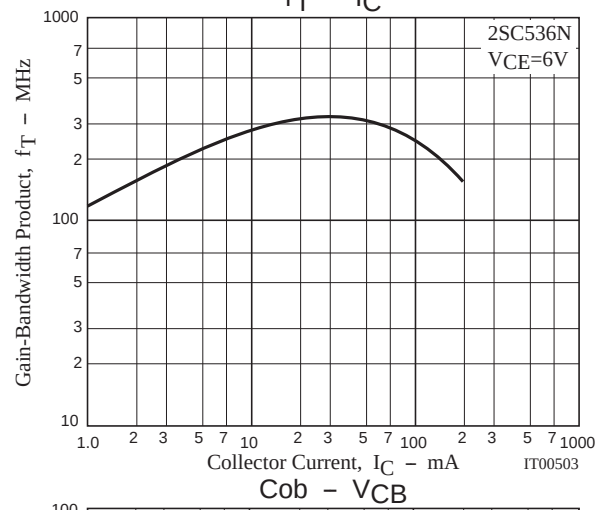
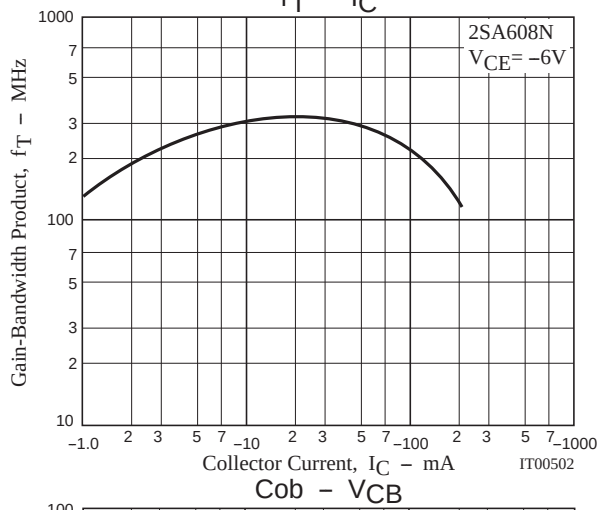
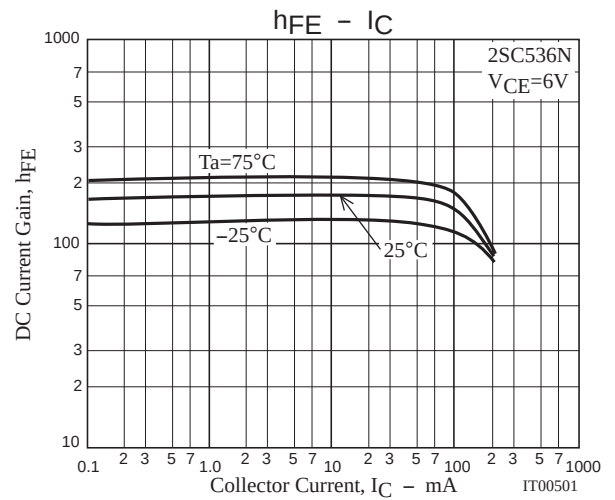
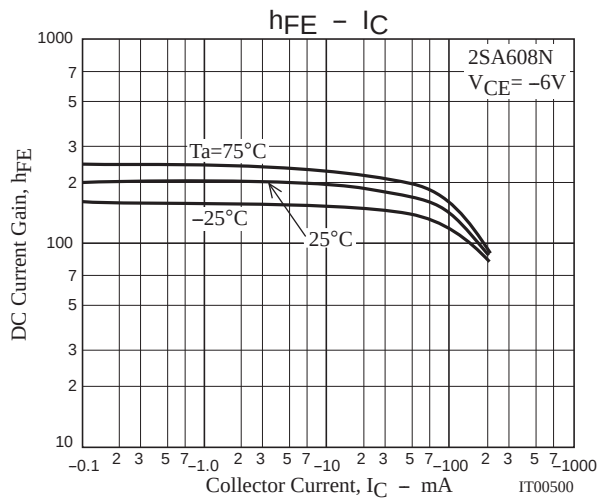
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector Cutoff Current	I_{CBO}	$V_{CB}=(-)40V, I_E=0A$			$(-)0.1$	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB}=(-)5V, I_C=0A$			$(-)0.1$	μA
DC Current Gain	h_{FE1}	$V_{CE}=(-)6V, I_C=(-)1mA$	160*		560*	
	h_{FE2}	$V_{CE}=(-)6V, I_C=(-)0.1mA$	70			
Gain-Bandwidth Product	f_T	$V_{CE}=(-)6V, I_C=(-)10mA$		200		MHz
Output Capacitance	C_{ob}	$V_{CB}=(-)6V, f=1MHz$		(4.5)3.0		pF
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=(-)100mA, I_B=(-)10mA$			$(-)0.3$	V
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=(-)100mA, I_B=(-)10mA$			$(-)1.0$	V
Collector to Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C=(-)10\mu A, I_E=0A$	$(-)60$			V
Collector to Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=(-)1mA, R_{BE}=\infty$	$(-)50$			V
Emitter to Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=(-)10\mu A, I_C=0A$	$(-)6$			V

* : The 2SA608N / 2SC536N are classified by 1mA h_{FE} as follow :

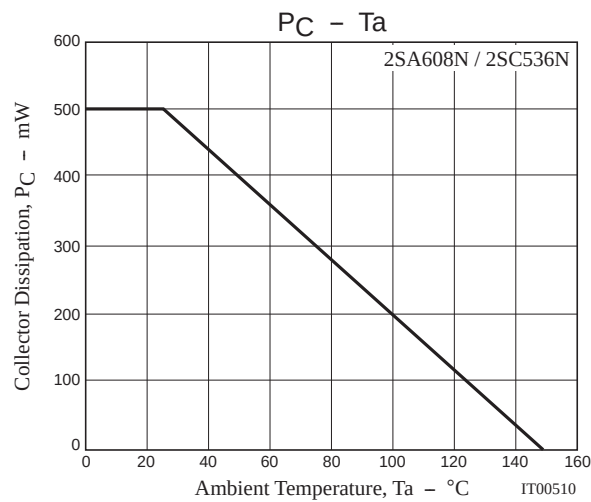
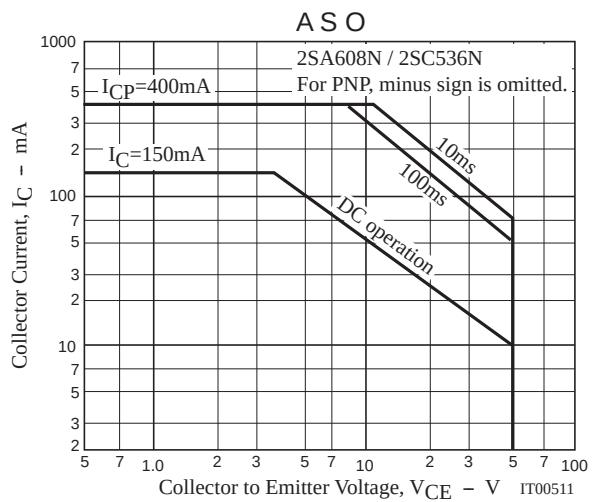
Rank	F	G
h_{FE}	160 to 320	280 to 560



2SA608N/2SC536N



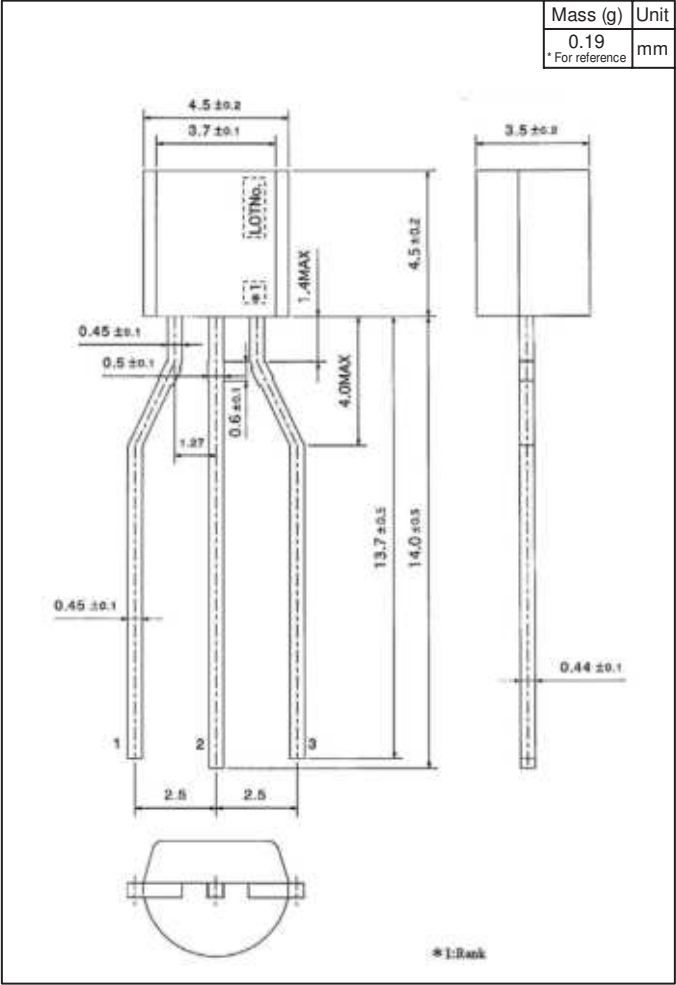
2SA608N/2SC536N



2SA608N/2SC536N

Outline Drawing

2SA608NF-NPA-AT, 2SA608NG-NPA-AT, 2SC536NF-NPA-AT, 2SC536NG-NPA-AT



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