2SA1450/2SC3708



Low-Frequency Driver Applications

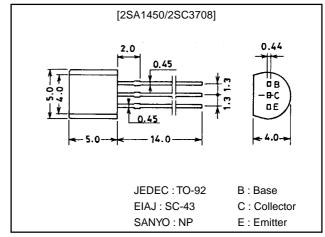
Features

- · Adoption of FBET process.
- · AF amp, AF power amp.
- · High breakdown voltage: V_{CEO}>80V

Package Dimensions

unit:mm

2003A



(): 2SA1450

Specifications

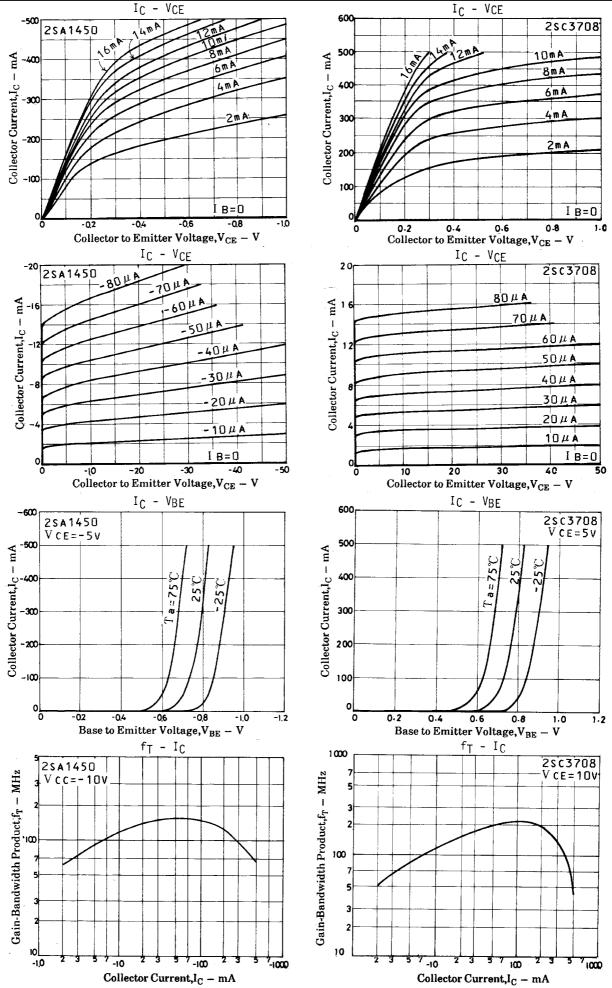
Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{CBO}		(-)100	V
Collector-to-Emitter Voltage	V _{CEO}		(-)80	V
Emitter-to-Base Voltage	V _{EBO}		(-)5	V
Collector Current	IC		(-)500	mA
Collector Current (Pulse)	I _{CP}		(-)800	mA
Base Current	Ι _Β		(-)100	mA
Collector Dissipation	PC		600	mW
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

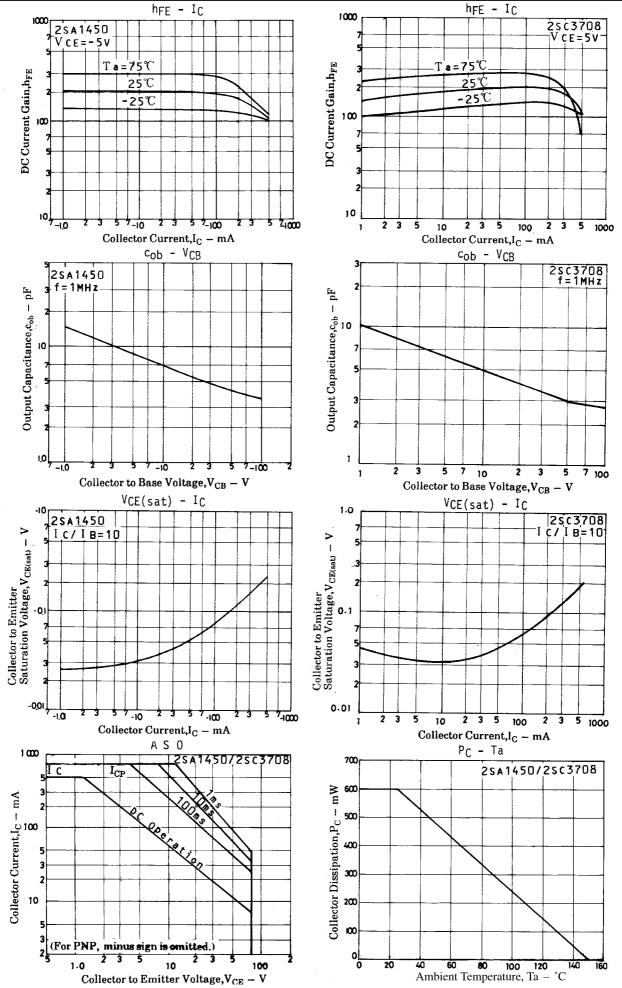
Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions		Ratings		
			min	typ	max	Unit
Collector Cutoff Current	ICBO	V _{CB} =(-)60V, I _E =0			(-)0.1	μA
Emitter Cutoff Current	I _{EBO}	V _{EB} =(-)4V, I _C =0			(-)0.1	μA
DC Current Gain	h _{FE} 1	V _{CE} =(-)5V, I _C =(-)50mA	100*		400*	
	h _{FE} 2	V _{CE} =(-)5V, I _C =(-)400mA	60			
Gain-Bandwidth Product	fT	V _{CE} =(-)10V, I _C =(-)10mA		120		MHz
Output Capacitance	C _{ob}	V _{CB} =(-)10V, f=1MHz		(7)5		pF
Collector-to-Emitter Saturation Voltage	V _{CE(sat)}	I _C =(-)400mA, I _B =(-)40mA		0.16		V
				(-0.2)	(-0.5)	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =(-)400mA, I _B =(-)40mA		(–)0.9	(-)1.2	V
Collector-to-Base Breakdown Voltage	V(BR)CBO	I _C =(-)10μΑ, I _E =0	-100			V
Collector-to-Emitter Breakdown Voltage	V _{(BR)CEO}	I _C =(-)1mA, R _{BE} =∞	-80			V
Emitter-to-Base Breakdown Votage	V(BR)EBO	I _E =(-)10μA, I _C =0	-5			V

 $[\]ast$: 2SA1450/2SC3708 are classified by 50mA h_{FE} as follows :



2SA1450/2SC3708



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