

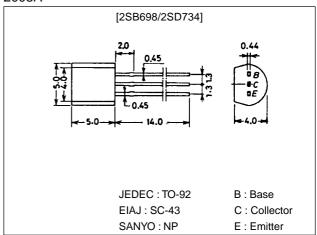
2SB698/2SD734

1W AF Output, Electronic Governor, DC-DC Converter Applications

Package Dimensions

unit:mm

2003A



(): 2SB698 for audio 1W output.

Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{CBO}		(–)25	V
Collector-to-Emitter Voltage	V _{CEO}		(–)20	V
Emitter-to-Base Voltage	V _{EBO}		(–)5	V
Collector Current	IC		(-)0.7	А
Collector Current (Pulse)	I _{CP}		(-)1.5	Α
Collector Dissipation	PC		0.6	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
	Symbol		min	typ	max	Oill
Collector Cutoff Current	I _{CBO}	V _{CB} =(-)20V, I _E =0			(–)1.0	μA
Emitter Cutoff Current	I _{EBO}	V _{EB} =(-)4V, I _C =0			(–)1.0	μA
DC Current Gain	h _{FE} 1	V _{CE} =(-)2V, I _C =(-)50mA	60*		560*	
	h _{FE} 2	V _{CE} =(-)2V, I _C =(-)500mA	50			
Gain-Bandwidth Product	f _T	V _{CE} =(-)10V, I _C =(-)50mA		250		MHz
Output Capacitance	C _{ob}	V _{CB} =(-)10V, f=1MHz		(13)		pF
				8		pF

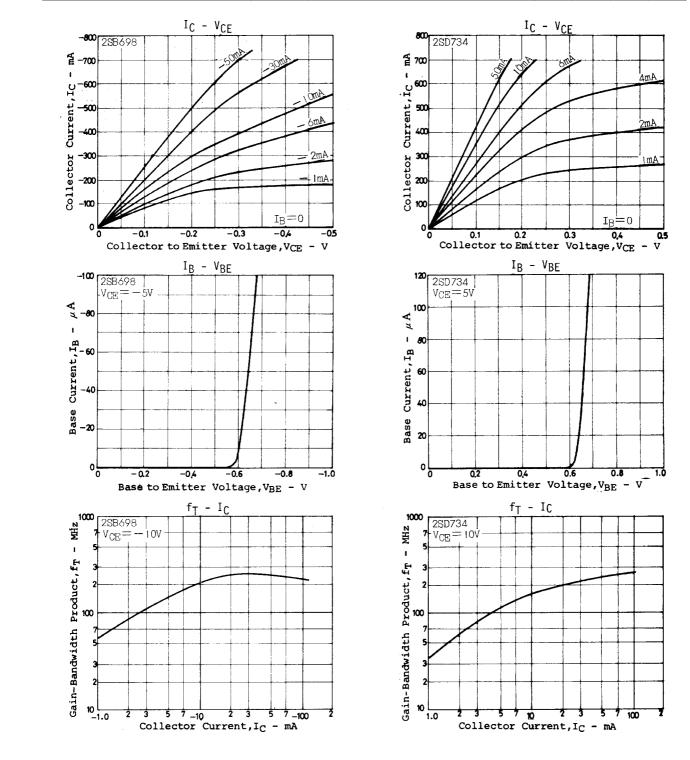
 \ast : The 2SB698/2SD734 are classified by 50mA $h_{\mbox{\scriptsize FE}}$ as follows :

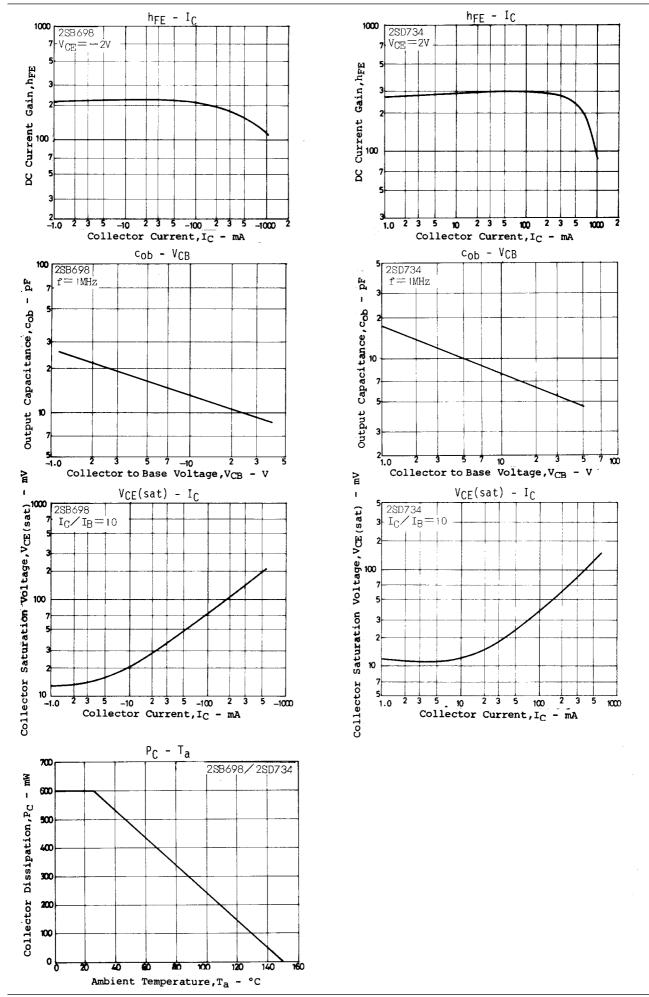
60 D 120 100 E 200 160 F 320 280 G 560

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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	O'III
Collector-to-Emitter Saturation Voltage	VCE(sat)	I _C =(-)500mA, I _B =(-)50mA		(-0.2)	(-0.45)	V
				0.13	0.3	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =(-)500mA, I _B =(-)50mA		(–)0.9		V
Collector-to-Base Breakdown Voltage	V(BR)CBO	I _C =(-)10μA, I _E =0	(–)25			V
Collector-to-Emitter Brakdown Voltage	V(BR)CEO	I _C =(-)1mA, R _{BE} =∞	(–)20			V
Emitter-to-Base Breakdown Voltage	V(BR)EBO	I _E =(-)10μA, I _C =0	(–)5			V





2SB698/2SD734

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