2SB888

Driver Applications

Applications

· Motor drivers, printer hammer drivers, relay drivers, votlage regulator control.

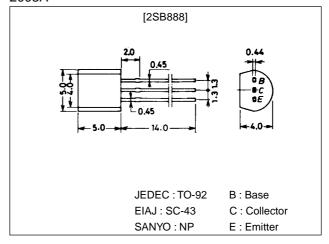
Features

- · High DC current gain (5000 or greater).
- · Large current capacity and wide ASO.
- · Low saturation voltage : $V_{CE(sat)}$ =-0.8V typ.

Package Dimensions

unit:mm

2003A



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{CBO}		-80	V
Collector-to-Emitter Voltage	V _{CEO}		-50	V
Emitter-to-Base Voltage	V _{EBO}		-10	V
Collector Current	IC		-0.7	Α
Collector Current (Pulse)	I _{CP}		-2	Α
Allowable Collector Dissipation	PC		600	mW
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

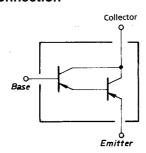
Electrical Characteristics at Ta = 25°C

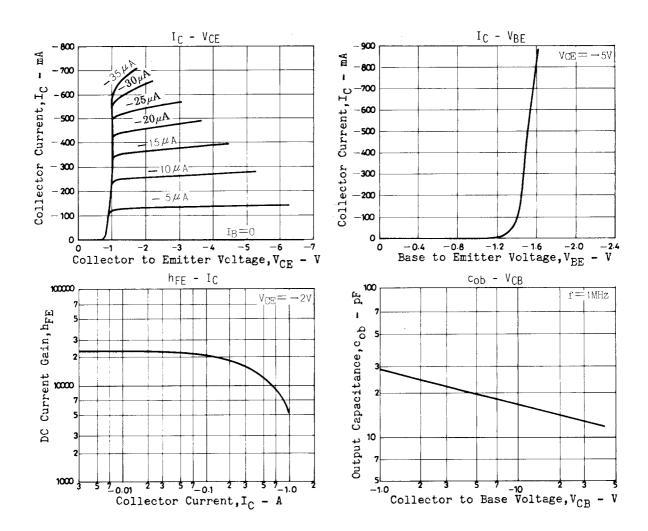
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	O'III
Collector Cutoff Current	ICBO	V _{CB} =-40V, I _E =0			-0.1	μΑ
Emitter Cutoff Current	I _{EBO}	V _{EB} =-8V, I _C =0			-0.1	μA
DC Current Gain	h _{FE} 1	V _{CE} =-2V, I _C =-50mA	5000			
	h _{FE} 2	V _{CE} =-2V, I _C =-500mA	3000			
Gain-Bandwidth Product	f _T	V _{CE} =-5V, I _C =-50mA		170		MHz
Output Capacitance	C _{ob}	V _{CB} =-10V, f=1MHz		16		pF

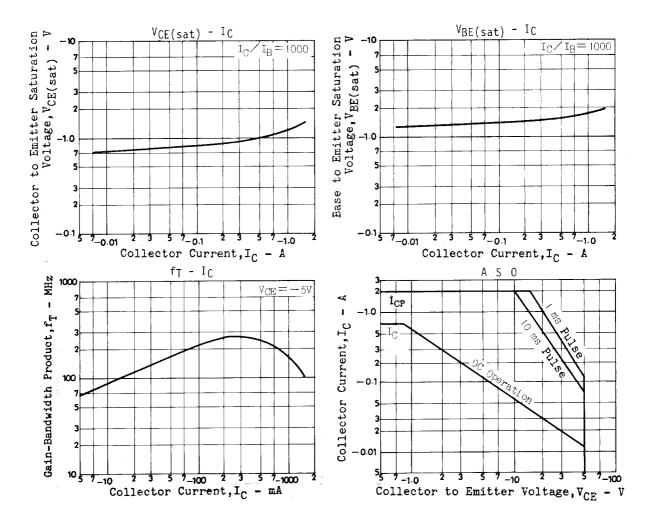
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Onne
Collector-to-Emitter Saturation Voltage	VCE(sat)	I _C =-100mA, I _B =-0.1mA		-0.8	-1.2	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =-100mA, I _B =-0.1mA		-1.3	-2.0	V
Collector-to-Base Breakdown Voltage	V _(BR) CBO	I _C =-10μA, I _E =0	-80			V
Collector-to-Emitter Breakdown Voltage	V _(BR) CEO	I _C =-1mA, R _{BE} =∞	<i>–</i> 50			V
Emitter-to-Base Breakdown Voltage	V(BR)EBO	I _E =-10μA, I _C =0	-10			٧

Electrical Connection







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