

2SC3068

High hFE, Low-Frequency General-Purpose Amplifier Applications

Applications

· Low-frequency, general-purpose amplifier., various drivers, muting circuit.

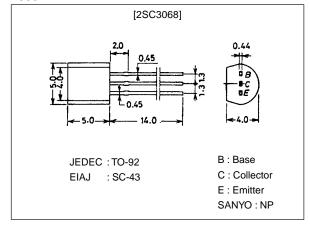
Features

- · High DC current gain (hFE=800 to 3200).
- · Large current capacity.
- · Low collector-to-emitter saturation voltage $(V_{CE(sat)}=0.5V \text{ max})$.
- · High V_{EBO} ($V_{EBO} \ge 15V$).

Package Dimensions

unit:mm

2003A



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{СВО}		30	V
Collector-to-Emitter Voltage	VCEO		25	V
Emitter-to-Base Voltage	VEBO		15	V
Collector Current	Ic		300	mA
Collector Current (Pulse)	I _{CP}		500	mA
Base Current	ΙB		60	mA
Collector Dissipation	PC		600	mW
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta = 25°C

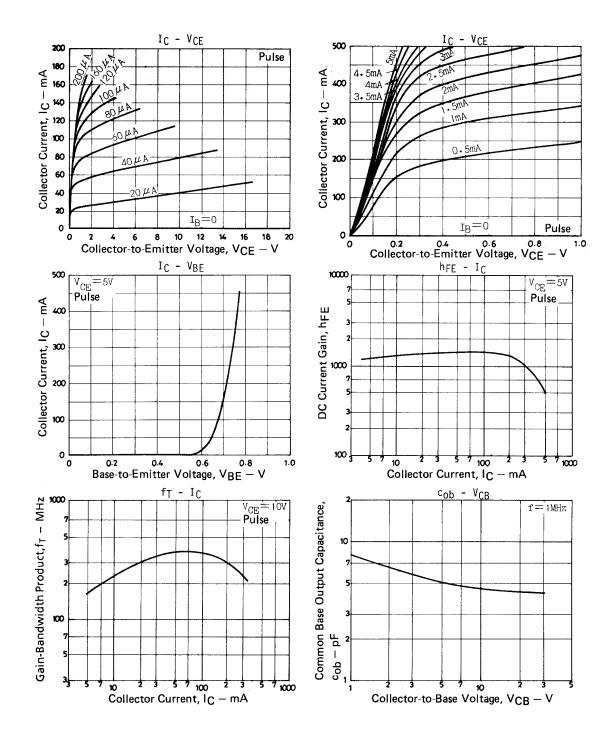
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	O'III
Collector Cutoff Current	I _{CBO}	V _{CB} =20V, I _E =0			0.1	μΑ
Emitter Cutoff Current	I _{EBO}	V _{EB} =10V, I _C =0			0.1	μΑ
DC Current Gain	h _{FE} 1	V _{CE} =5V, I _C =10mA	800	1500	3200	
	h _{FE} 2	V _{CE} =5V, I _C =200mA	600			
Gain-Bandwidth Product	fT	V _{CE} =10V, I _C =10mA		250		MHz
Output Capacitance	C _{ob}	V _{CB} =10V, f=1MHz		4.5		pF

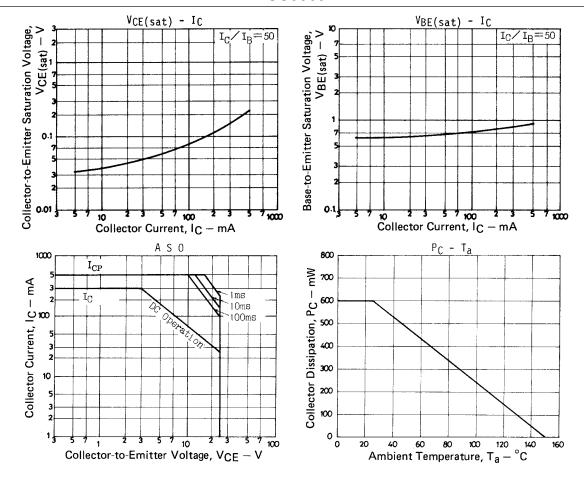
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SANYO Electric Co.,Ltd. Semiconductor Bussiness Headquaters

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Parameter	Symbol	Conditions	Ratings			Unit
	Symbol		min	typ	max	O I III
Collector-to-Emitter Saturation Voltage	VCE(sat)	I _C =200mA, I _B =4mA		0.12	0.5	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =200mA, I _B =4mA		0.85	1.2	V
Collector-to-Base Breakdown Voltage	V _(BR) CBO	I _C =10μA, I _E =0	30			V
Collector-to-Emitter Breakdown Voltage	V(BR)CEO	I _C =1mA, R _{BE} =∞	25			V
Emitter-to-Base Breakdown Voltage	V _{(BR)EBO}	I _E =10μA, I _C =0	15			V





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