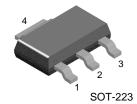


BCP68

NPN General Purpose Amplifier

- This device is designed for general purpose medium power amplifiers.
- Sourced from process 37.



1. Base 2.4. Collector 3. Emitter

Absolute Maximum Ratings $T_C=25$ °C unless otherwise noted

Symbol	Parameter	Value	Units
V_{CEO}	Collector-Emitter Voltage	20	V
V_{CBO}	Collector-Base Voltage	30	V
V_{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current	1	Α
P _D	Total Device Dissipation @ T _A =25°C - Derate above 25°C	1.5 12	Watts mW/°C
T _J , T _{STG}	Operating and Storage Junction Temperature Range	- 55 ~ +150	°C

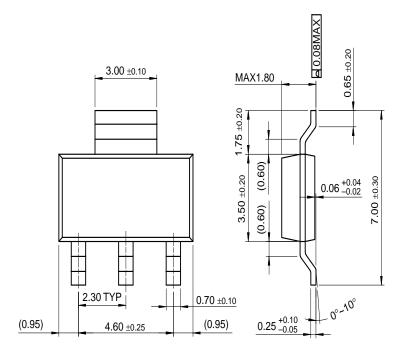
Electrical Characteristics $\rm T_{C}{=}25^{\circ}C$ unless otherwise noted

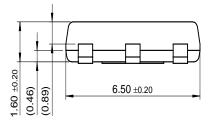
Symbol	Parameter	Test Conditions	Min.	Тур.	Max.	Units
Off Characte	eristics	•		•		•
V _{(BR)CES}	Collector-Emitter Breakdown Voltage	$I_C = 100\mu A, I_E = 0$	25			V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 1mA, I _B = 0	20			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	$I_E = 10\mu A, I_C = 0$	5			V
I _{CBO}	Collector-Base Cutoff Current	$V_{CB} = 25V, I_E = 0, T_A = 25^{\circ}C$			10	μΑ
		$V_{CB} = 25V, I_{E} = 0, T_{A} = 125^{\circ}C$			1	mA
I _{EBO}	Emitter-Base Cutoff Current	$V_{EB} = 5V, I_{C} = 0$			10	μΑ
On Characte	eristics (1)					
h _{FE}	DC Current Gain	I _C = 5mA, V _{CE} = 10V	50			
		$I_C = 500 \text{mA}, V_{CE} = 1 \text{V}$	85		375	
		$I_C = 1A$, $V_{CE} = 1V$	60			
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 1A, I _B = 100mA			0.5	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 1A, V _{CE} = 1V			1	V

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Package Demensions

SOT-223





Dimensions in Millimeters

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