Absolute Maximum Ratings $T_{C}\text{=}25^{\circ}\text{C}$ unless otherwise noted

Symbol	Parameter		Value	Units	
V _{CEO}	Collector-Emitter Voltage		45	V	
V _{CBO}	Collector-Base Voltage		50	V	
V _{EBO}	Emitter-Base Voltage		5.0	V	
с	Collector current	- Continuous	500	mA	
T _J , T _{stq}	Junction and Storage Temperature		-55 ~ +150	°C	

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

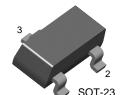
Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
Off Characte	eristics	-				
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	$I_{\rm C} = 10 {\rm mA}, I_{\rm B} = 0$	45			V
V _{(BR)CES}	Collector-Emitter Breakdown Voltage	$I_{\rm C} = 10 \mu {\rm A}, I_{\rm C} = 0$	50			V
I _{CBO}	Collector Cutoff Current	$V_{CE} = 20V, I_E = 0$ $V_{CE} = 20V, I_E = 0, TA = 150^{\circ}C$			100 5.0	nA μA
I _{EBO}	Emitter Cutoff Current	$V_{EB} = 5.0V, I_{C} = 0$			10	μΑ
On Characte	eristics			•	•	
h _{FE}	DC Current Gain	$ I_{C} = 100 m A, V_{CE} = 1.0 V \\ I_{C} = 300 m A, V_{CE} = 1.0 V \\ I_{C} = 500 m A, V_{CE} = 1.0 V $	100 70 40		600	
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 500mA, I _B = 50mA			0.62	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 500mA, V _{CE} = 1.0V			1.2	V

Thermal Characteristics $T_A=25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Max.	Units
PD	Total Device Dissipation		mW
	Alumina Substrate,** $T_A = 25^{\circ}C$		
	Derate above 25°C	2.4	mW/°C
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	417	°C/W

** Alumina = 0.4×0.3×0.024 in. 9.5% alumina

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1. Base 2. Emitter 3. Collector

Mark: T1

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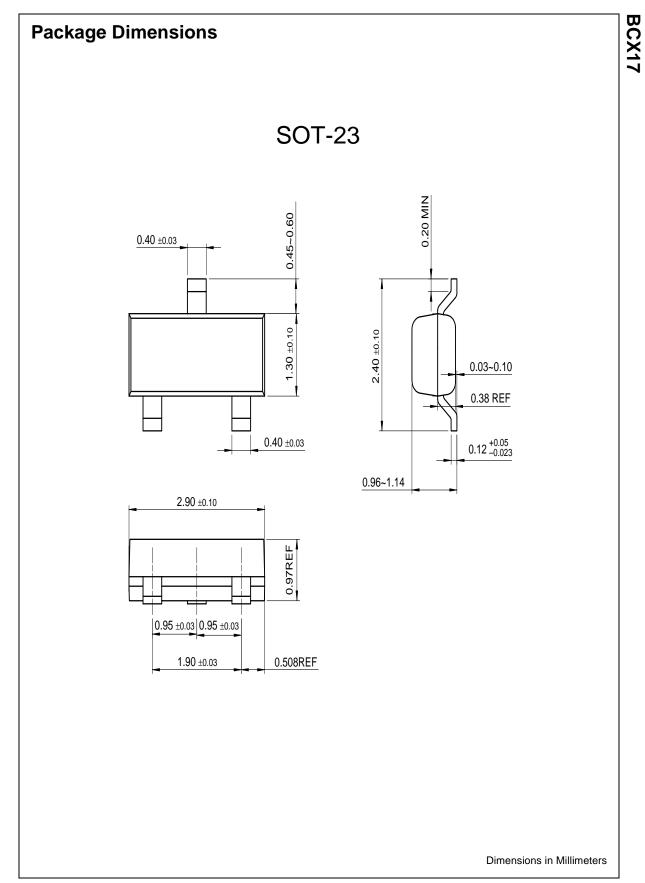
application at current 0.5A.

BCX17

Sourced from process 78.

• This device is esigned for general purpose amplifier and switching

PNP General Purpose Amplifier



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