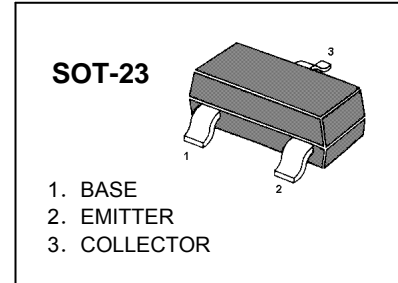


## BCV47 TRANSISTOR(NPN)

for preamplifier input applications



### MAXIMUM RATINGS (Ta=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Collector Base Voltage	$V_{CBO}$	30	V
Collector Emitter Voltage	$V_{CEO}$	30	V
Emitter Base Voltage	$V_{EBO}$	10	V
Collector Current	$I_C$	300	mA
Typical Thermal Resistance <sup>1)</sup>	$R_{\theta JA}$	556	°C/W
Total Power Dissipation	$P_{tot}$	225	mW
Junction Temperature	$T_j$	150	°C
Storage Temperature Range	$T_s$	- 55 to + 150	°C

1 Thermal resistance from junction to ambient at P.C.B. mounted

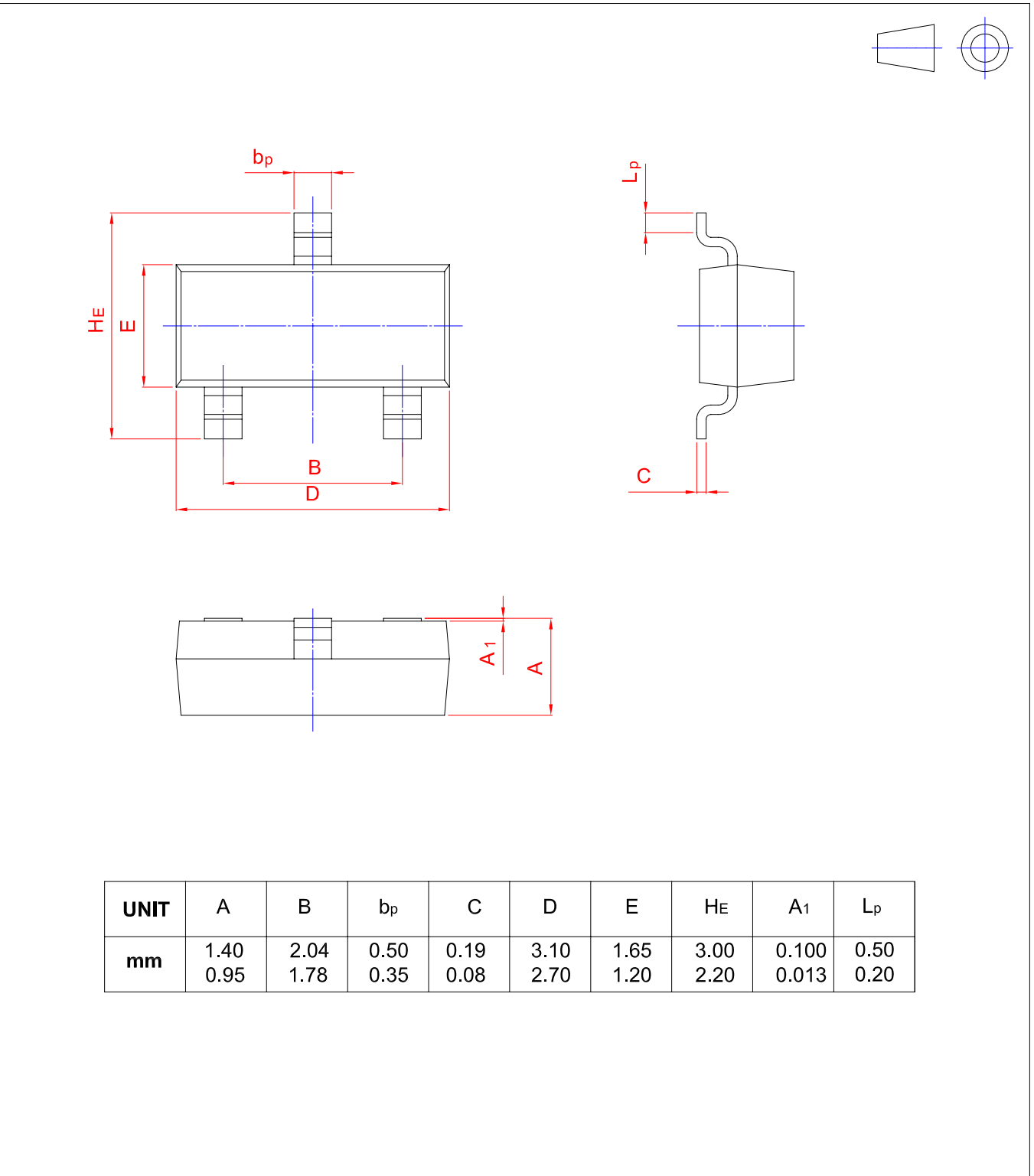
### ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain					
at $V_{CE} = 5\text{ V}$ , $I_C = 10\text{ mA}$	$h_{FE}$	10000	-	-	-
at $V_{CE} = 5\text{ V}$ , $I_C = 100\text{ mA}$	$h_{FE}$	20000	-	-	-
Collector Cutoff Current					
at $V_{CB} = 30\text{ V}$	$I_{CBO}$	-	-	100	nA
Collector Emitter Breakdown Voltage					
at $I_C = 10\text{ mA}$	$V_{(BR)CEO}$	30	-	-	V
Collector Emitter Saturation Voltage					
at $I_C = 100\text{ mA}$ , $I_B = 0.1\text{ mA}$	$V_{CE(sat)}$	-	-	1.5	V
Base Emitter On-state Voltage					
at $I_C = 100\text{ mA}$ , $V_{CE} = 5\text{ V}$	$V_{BE(on)}$	-	-	2.0	V
Transition Frequency					
at $V_{CE} = 5\text{ V}$ , $I_C = 50\text{ mA}$ , $f = 100\text{ MHz}$	$f_T$	125	-	-	MHz

PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-23



UNIT	A	B	bp	C	D	E	HE	A1	Lp
mm	1.40	2.04	0.50	0.19	3.10	1.65	3.00	0.100	0.50
	0.95	1.78	0.35	0.08	2.70	1.20	2.20	0.013	0.20

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