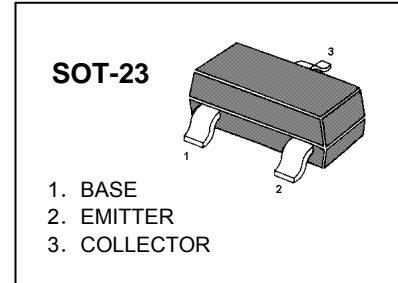


BCV47 TRANSISTOR(NPN)

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 ¹⁾	$R_{\theta JA}$	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

