



FUKUCOM COMPANY LTD.

福 靈 有 限 公 司

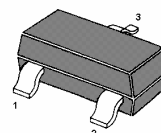
FLAT P, 3/F., EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD,
KWUN TONG, KOWLOON, HONG KONG.

TEL: 852-2790 0314 FAX: 852-2790 0206

BCV27 / BCV47

NPN Darlington Transistors

for preamplifier input applications



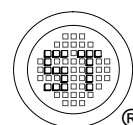
1. Base 2. Emitter 3. Collector
SOT-23 Plastic Package

Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Collector Base Voltage	BCV27 BCV47	40 80	V
Collector Emitter Voltage	BCV27 BCV47	30 60	V
Emitter Base Voltage	V _{EBO}	10	V
Collector Current	I _C	500	mA
Peak Collector Current	I _{CM}	800	mA
Base Current	I _B	100	mA
Total Power Dissipation	P _{tot}	200	mW
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _S	- 65 to + 150	°C

Characteristics at T_a = 25 °C

Parameter	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain					
at V _{CE} = 5 V, I _C = 1 mA	BCV27 BCV47	h _{FE} h _{FE}	4000 2000	- -	- -
at V _{CE} = 5 V, I _C = 10 mA	BCV27 BCV47	h _{FE} h _{FE}	10000 4000	- -	- -
at V _{CE} = 5 V, I _C = 100 mA	BCV27 BCV47	h _{FE} h _{FE}	20000 10000	- -	- -
Collector Cutoff Current					
at V _{CB} = 30 V	BCV27	I _{CBO}	-	100	nA
at V _{CB} = 60 V	BCV47	I _{CBO}	-	100	nA
Emitter Cutoff Current					
at V _{EB} = 10 V		I _{EBO}	-	100	nA
Collector Base Breakdown Voltage	BCV27 BCV47	V _{(BR)CBO}	40 80	- -	V
Collector Emitter Breakdown Voltage	BCV27 BCV47	V _{(BR)CEO}	30 60	- -	V
Emitter Base Breakdown Voltage		V _{(BR)EBO}	10	-	V
Collector Emitter Saturation Voltage		V _{CE(sat)}	-	1	V
Base Emitter Saturation Voltage		V _{BE(sat)}	-	1.5	V
Base Emitter On-state Voltage		V _{BE(on)}	-	1.4	V
Transition Frequency		f _T	220	-	MHz



Dated : 18/08/2007



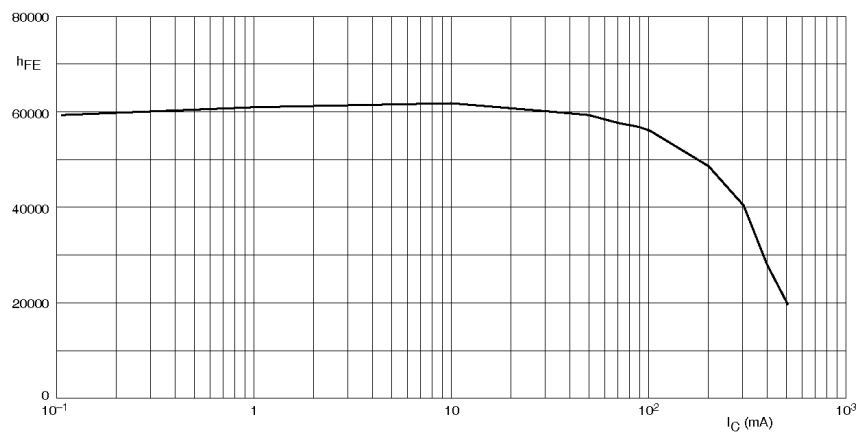
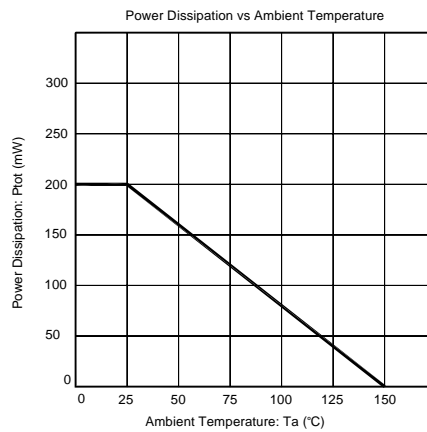
FUKUCOM COMPANY LTD.

福 靈 有 限 公 司

FLAT P, 3/F., EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD,
KWUN TONG, KOWLOON, HONG KONG.

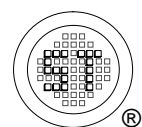
TEL: 852-2790 0314 FAX: 852-2790 0206

BCV27 / BCV47



$V_{CE} = 2V$.

DC current gain; typical values.



Dated : 18/08/2007