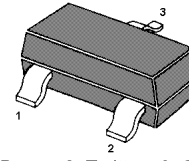


# BCV26 / BCV46

## PNP Darlington Transistors

for preamplifier input applications



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

### Absolute Maximum Ratings ( $T_a = 25\text{ }^\circ\text{C}$ )

Parameter	Symbol	Value	Unit	
Collector Base Voltage	BCV26 BCV46	- $V_{CBO}$	40 80	V
Collector Emitter Voltage	BCV26 BCV46	- $V_{CEO}$	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	$^\circ\text{C}$
Storage Temperature Range		$T_{Stg}$	- 65 to + 150	$^\circ\text{C}$

### Characteristics at $T_a = 25\text{ }^\circ\text{C}$

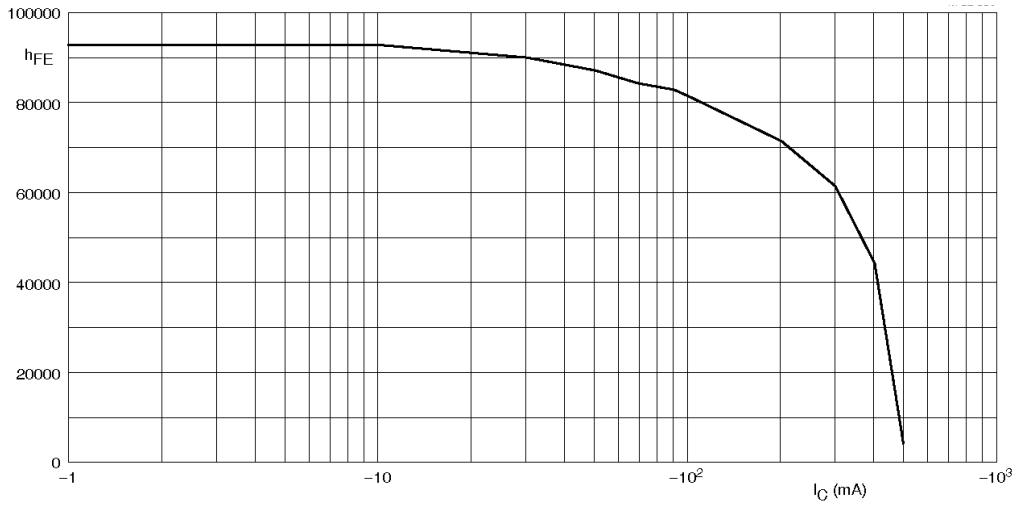
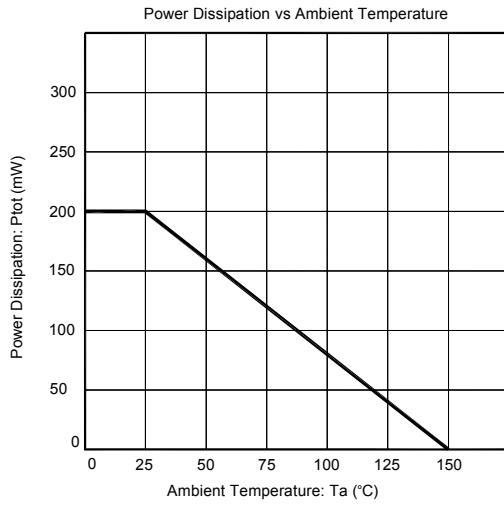
Parameter	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain					
at $-V_{CE} = 5\text{ V}$ , $-I_C = 1\text{ mA}$	BCV26 BCV46	$h_{FE}$	4000 2000	- -	- -
at $-V_{CE} = 5\text{ V}$ , $-I_C = 10\text{ mA}$	BCV26 BCV46	$h_{FE}$	10000 4000	- -	- -
at $-V_{CE} = 5\text{ V}$ , $-I_C = 100\text{ mA}$	BCV26 BCV46	$h_{FE}$	20000 10000	- -	- -
Collector Base Cutoff Current					
at $-V_{CB} = 30\text{ V}$	BCV26	- $I_{CBO}$	-	100	nA
at $-V_{CB} = 60\text{ V}$	BCV46		-	100	
Emitter Base Cutoff Current					
at $-V_{EB} = 10\text{ V}$		- $I_{EBO}$	-	100	nA
Collector Base Breakdown Voltage	BCV26 BCV46	- $V_{(BR)CBO}$	40 80	- -	V
Collector Emitter Breakdown Voltage	BCV26 BCV46	- $V_{(BR)CEO}$	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
at $-V_{CE} = 5\text{ V}$ , $-I_C = 30\text{ mA}$ , $f = 100\text{ MHz}$					

**TOP DYNAMIC**



ISO 14001 : 2004 Certificate No. 121505007  
 ISO 9001 : 2008 Certificate No. 5014012  
 OHSAS 18001 : 2007 Certificate No. 05131508008  
 IECQ QC 080000 Certificate No. E5011000114122

Dated : 18/08/2012



V<sub>CE</sub> = -2 V.

DC current gain; typical values.