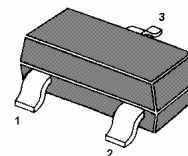


BCV26 / BCV46

PNP Darlington Transistors

for preamplifier input applications



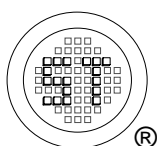
1. Base 2. Emitter 3. Collector
SOT-23 Plastic Package

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_s	- 65 to + 150	$^\circ\text{C}$

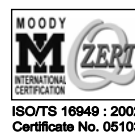
Characteristics at $T_a = 25\text{ }^\circ\text{C}$

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 Cutoff Current					
at $-V_{CB} = 30\text{ V}$	BCV26	$-I_{CBO}$	-	100	nA
at $-V_{CB} = 60\text{ V}$	BCV46		-	100	
Emitter 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
at $-I_C = 100\text{ mA}$, $-I_B = 0.1\text{ mA}$					
Base Emitter Saturation Voltage		$-V_{BE(sat)}$	-	1.5	V
at $-I_C = 100\text{ mA}$, $-I_B = 0.1\text{ mA}$					
Base Emitter On-state Voltage		$-V_{BE(on)}$	-	1.4	V
at $-I_C = 10\text{ mA}$, $-V_{CE} = 5\text{ V}$					
Transition Frequency		f_T	-	220	MHz
at $-V_{CE} = 5\text{ V}$, $-I_C = 30\text{ mA}$, $f = 100\text{ MHz}$					

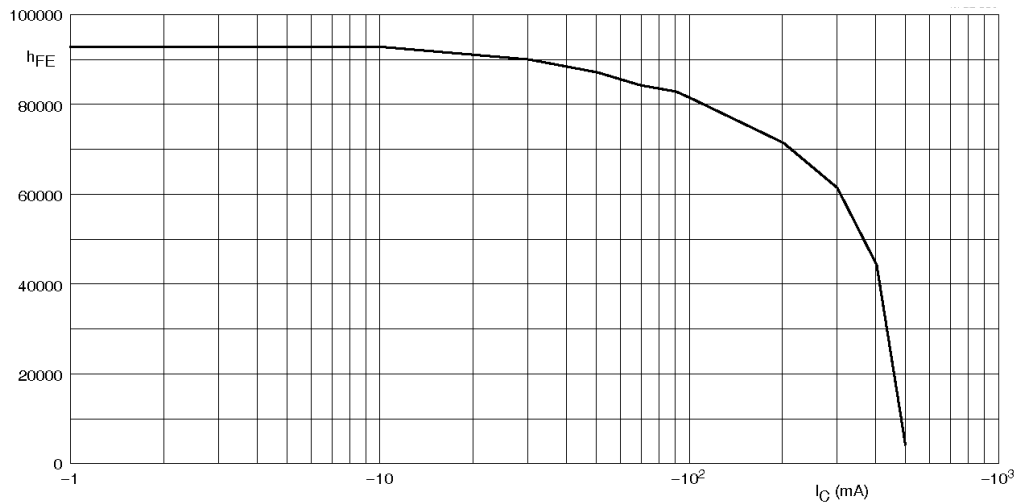
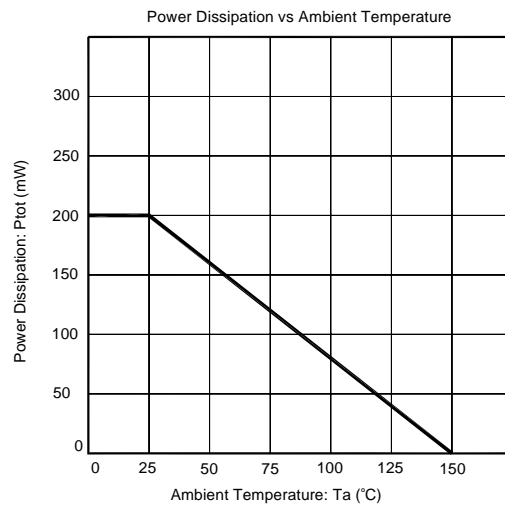


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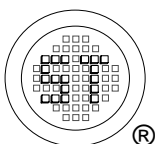


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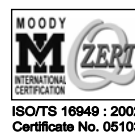


$V_{CE} = -2V$.

DC current gain; typical values.



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