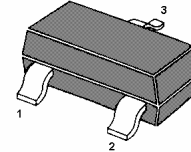


NPN Darlington Transistors

for preamplifier input applications



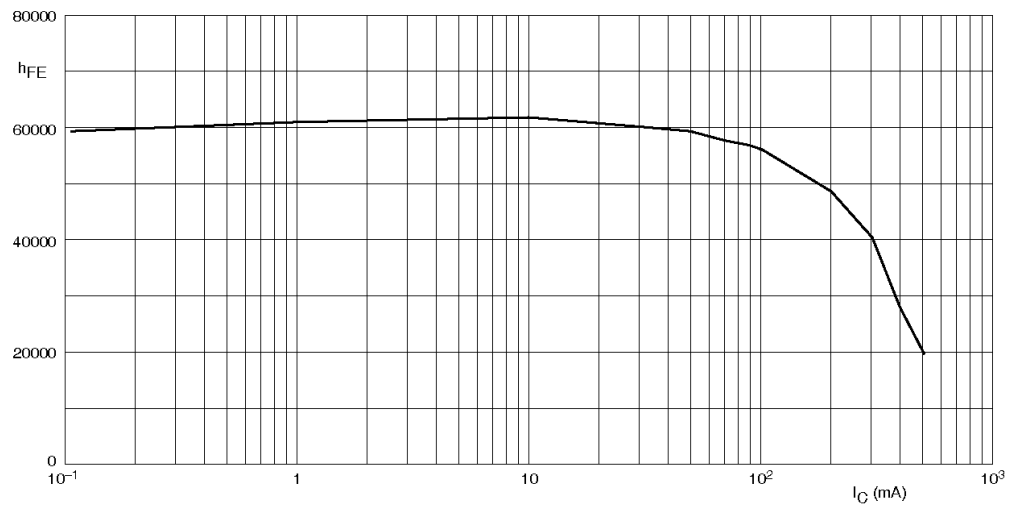
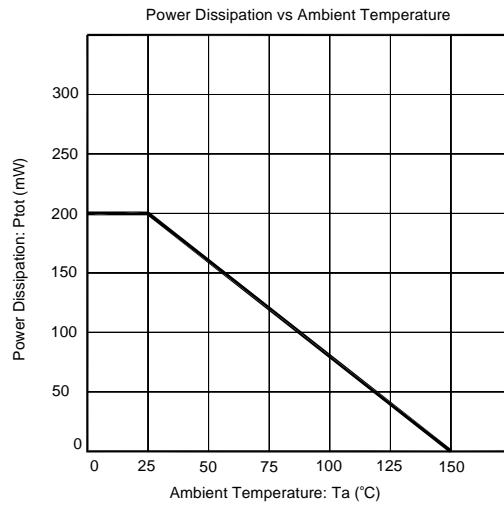
1. Base 2. Emitter 3. Collector
SOT-23 Plastic Package

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

Parameter	Symbol	Value	Unit
Collector Base Voltage	BCV27 BCV47	V_{CBO} 40 80	V
Collector Emitter Voltage	BCV27 BCV47	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 $V_{CE} = 5\text{ V}$, $I_C = 1\text{ mA}$	BCV27 BCV47	h_{FE} 4000 2000	- - -	- - -	- - -
at $V_{CE} = 5\text{ V}$, $I_C = 10\text{ mA}$	BCV27 BCV47	h_{FE} 10000 4000	- - -	- - -	- - -
at $V_{CE} = 5\text{ V}$, $I_C = 100\text{ mA}$	BCV27 BCV47	h_{FE} 20000 10000	- - -	- - -	- - -
Collector Cutoff Current at $V_{CB} = 30\text{ V}$ at $V_{CB} = 60\text{ V}$	BCV27 BCV47	I_{CBO} - -	- - -	100 100	nA
Emitter Cutoff Current at $V_{EB} = 10\text{ V}$		I_{EBO} -	- -	100	nA
Collector Base Breakdown Voltage at $I_C = 100\text{ }\mu\text{A}$	BCV27 BCV47	$V_{(BR)CBO}$ 40 80	- - -	- - -	V
Collector Emitter Breakdown Voltage at $I_C = 10\text{ mA}$	BCV27 BCV47	$V_{(BR)CEO}$ 30 60	- - -	- - -	V
Emitter Base Breakdown Voltage at $I_E = 10\text{ }\mu\text{A}$		$V_{(BR)EBO}$ 10	- -	- -	V
Collector Emitter Saturation Voltage at $I_C = 100\text{ mA}$, $I_B = 0.1\text{ mA}$		$V_{CE(sat)}$ -	- -	1	V
Base Emitter Saturation Voltage at $I_C = 100\text{ mA}$, $I_B = 0.1\text{ mA}$		$V_{BE(sat)}$ -	- -	1.5	V
Base Emitter On-state Voltage at $I_C = 10\text{ mA}$, $V_{CE} = 5\text{ V}$		$V_{BE(on)}$ -	- -	1.4	V
Transition Frequency at $V_{CE} = 5\text{ V}$, $I_C = 30\text{ mA}$, $f = 100\text{ MHz}$		f_T -	220	-	MHz



$V_{CE} = 2V.$

DC current gain; typical values.

单击下面可查看定价，库存，交付和生命周期等信息

[>>SHIKUES\(时科\)](#)