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PNP resistor-equipped transistor; R1 = 22 k Ω , R2 = 22 k Ω Rev. 2 — 4 May 2012 Product data of the second secon

Product data sheet

Product profile 1.

1.1 General description

PNP Resistor-Equipped Transistor (RET) in a leadless ultra small DFN1006B-3 (SOT883B) Surface-Mounted Device (SMD) plastic package.

NPN complement: PDTC124EMB.

1.2 Features and benefits

- 100 mA output current capability
- Reduces component count
- Built-in bias resistors
- Reduces pick and place costs

1.3 Applications

- Low-current peripheral driver
- Control of IC inputs

- Simplifies circuit design
- AEC-Q101 gualified
- Leadless ultra small SMD plastic package
- Low package height of 0.37 mm
- Replaces general-purpose transistors in digital applications
- Mobile applications

1.4 Quick reference data

Table 1.	Quick reference data					
Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V_{CEO}	collector-emitter voltage	open base	-	-	-50	V
lo	output current		-	-	-100	mA
R1	bias resistor 1 (input)	T _{amb} = 25 °C	15.4	22	28.6	kΩ
R2/R1	bias resistor ratio		0.8	1	1.2	



PNP resistor-equipped transistor; R1 = 22 k Ω , R2 = 22 k Ω

2. Pinning information

Table 2.	Pinning	information		
Pin	Symbol	Description	Simplified outline	Graphic symbol
1	I	input (base)		
2	G	GND (emitter)		
3	0	output (collector)	2 Transparent top view SOT883B (DFN1006B-3)	1 R1 R2 2 sym003

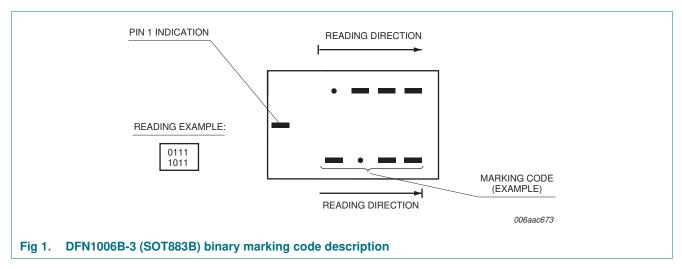
3. Ordering information

Table 3. Ordering information							
Type number	Package						
	Name	Description	Version				
PDTA124EMB	DFN1006B-3	Leadless ultra small plastic package; 3 solder lands; body 1.0 x 0.6 x 0.37 mm	SOT883B				

4. Marking

Table 4.	Marking	codes
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Type number	Marking code
PDTA124EMB	0010 0101



PNP resistor-equipped transistor; R1 = 22 k Ω , R2 = 22 k Ω

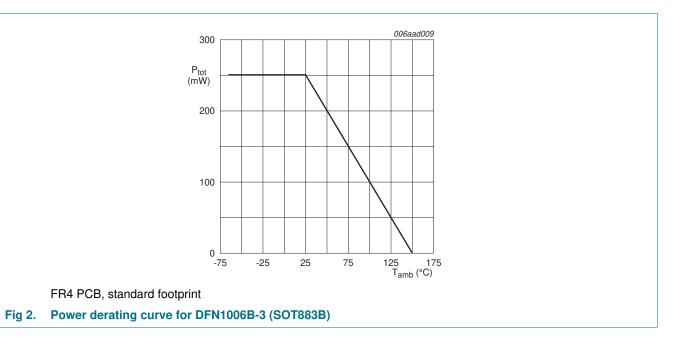
5. Limiting values

Table 5. Limiting values

In accordance with the Absolute Maximum Rating System (IEC 60134).

Symbol	Parameter	Conditions		Min	Max	Unit
V _{CBO}	collector-base voltage	open emitter		-	-50	V
V _{CEO}	collector-emitter voltage	open base		-	-50	V
V _{EBO}	emitter-base voltage	open collector		-	-10	V
VI	input voltage	positive		-	10	V
		negative		-	-40	V
lo	output current			-	-100	mA
I _{CM}	peak collector current	pulsed; t _p ≤ 1 ms		-	-100	mA
P _{tot}	total power dissipation	T _{amb} ≤ 25 °C	<u>[1]</u>	-	250	mW
Tj	junction temperature			-	150	°C
T _{amb}	ambient temperature			-65	150	°C
T _{stg}	storage temperature			-65	150	°C

[1] Device mounted on an FR4 Printed-Circuit Board (PCB), single-sided copper, tin-plated and standard footprint.

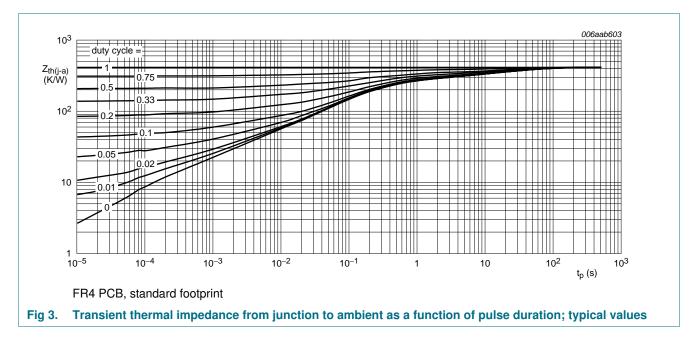


PNP resistor-equipped transistor; R1 = 22 k Ω , R2 = 22 k Ω

6. Thermal characteristics

Table 6.	Thermal characteristics						
Symbol	Parameter	Conditions		Min	Тур	Max	Unit
R _{th(j-a)}	thermal resistance from junction to ambient	in free air	[1]	-	-	500	K/W

[1] Device mounted on an FR4 PCB, single-sided copper, tin-plated and standard footprint.

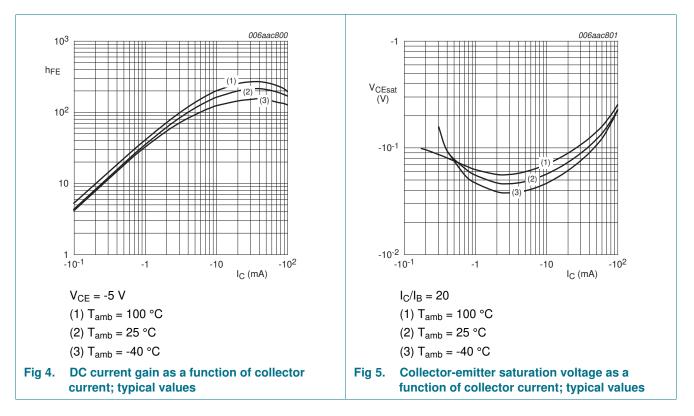


PNP resistor-equipped transistor; R1 = 22 k Ω , R2 = 22 k Ω

7. Characteristics

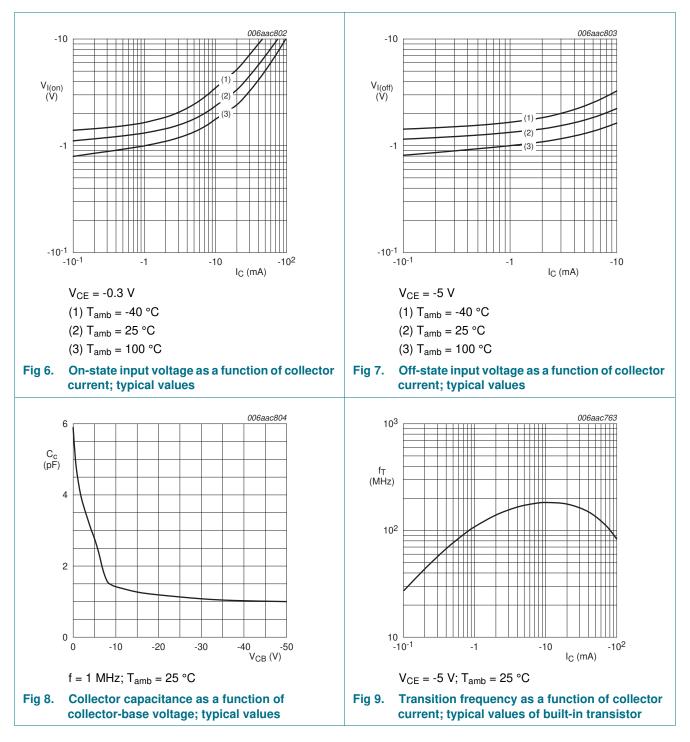
Parameter	Conditions		Min	Тур	Max	Unit
collector-base cut-off current	$V_{CB} = -50 \text{ V}; \text{ I}_{E} = 0 \text{ A}; \text{ T}_{amb} = 25 \text{ °C}$		-	-	-100	nA
collector-emitter cut-off	V_{CE} = -30 V; I _B = 0 A; T _{amb} = 25 °C		-	-	-100	nA
current	V_{CE} = -30 V; I _B = 0 A; T _j = 150 °C		-	-	-5	μA
emitter-base cut-off current	V_{EB} = -5 V; I_C = 0 A; T_{amb} = 25 °C		-	-	-180	μA
DC current gain	V_{CE} = -5 V; I_{C} = -5 mA; T_{amb} = 25 °C		60	-	-	
collector-emitter saturation voltage	I_{C} = -10 mA; I_{B} = -0.5 mA; T_{amb} = 25 °C		-	-	-150	mV
off-state input voltage	$V_{CE} = -5 \ V; \ I_C = -100 \ \mu A; \ T_{amb} = 25 \ ^\circ C$		-	-1.1	-0.8	V
on-state input voltage	$V_{CE} = -0.3 \text{ V}; \text{ I}_{C} = -5 \text{ mA}; \text{ T}_{amb} = 25 \text{ °C}$		-2.5	-1.7	-	V
bias resistor 1 (input)	T _{amb} = 25 °C		15.4	22	28.6	kΩ
bias resistor ratio			0.8	1	1.2	
collector capacitance	$V_{CB} = -10 \text{ V}; I_E = 0 \text{ A}; i_e = 0 \text{ A}; f = 1 \text{ MHz}; T_{amb} = 25 \text{ °C}$		-	-	3	pF
transition frequency	$\label{eq:Vce} \begin{array}{l} V_{CE} = -5 \ V; \ I_C = -10 \ m\text{A}; \ f = 100 \ \text{MHz}; \\ T_{amb} = 25 \ ^{\circ}\text{C} \end{array}$	<u>[1]</u>	-	180	-	MHz
	collector-base cut-off currentcollector-emitter cut-off currentemitter-base cut-off currentDC current gain collector-emitter saturation voltageoff-state input voltage on-state input voltagebias resistor 1 (input) 	$\begin{array}{ll} \mbox{collector-base cut-off current} & V_{CB} = -50 \ V; \ I_E = 0 \ A; \ T_{amb} = 25 \ ^{\circ}C \ & V_{CE} = -30 \ V; \ I_B = 0 \ A; \ T_{amb} = 25 \ ^{\circ}C \ & V_{CE} = -30 \ V; \ I_B = 0 \ A; \ T_{amb} = 25 \ ^{\circ}C \ & V_{CE} = -30 \ V; \ I_B = 0 \ A; \ T_{j} = 150 \ ^{\circ}C \ & V_{CE} = -30 \ V; \ I_B = 0 \ A; \ T_{amb} = 25 \ ^{\circ}C \ & V_{CB} = -5 \ V; \ I_C = 0 \ A; \ T_{amb} = 25 \ ^{\circ}C \ & Collector-emitter \ & U_{CE} = -5 \ V; \ I_C = -5 \ mA; \ T_{amb} = 25 \ ^{\circ}C \ & Collector-emitter \ & I_C = -10 \ mA; \ I_B = -0.5 \ mA; \ T_{amb} = 25 \ ^{\circ}C \ & Collector-emitter \ & V_{CE} = -5 \ V; \ I_C = -100 \ \muA; \ T_{amb} = 25 \ ^{\circ}C \ & Con-state \ input \ voltage \ & V_{CE} = -0.3 \ V; \ I_C = -5 \ mA; \ T_{amb} = 25 \ ^{\circ}C \ & Dias \ resistor \ 1 \ (input) \ & T_{amb} = 25 \ ^{\circ}C \ & Dias \ resistor \ 1 \ (input) \ & T_{amb} = 25 \ ^{\circ}C \ & Dias \ resistor \ ratio \ & Collector \ capacitance \ & V_{CB} = -10 \ V; \ I_E = 0 \ A; \ i_e = 0 \ A; \ f = 1 \ MHz; \ T_{amb} = 25 \ ^{\circ}C \ & Transition \ frequency \ & V_{CE} = -5 \ V; \ I_C = -10 \ mA; \ f = 100 \ MHz; \ \end{array}$	$\begin{array}{c} \mbox{collector-base cut-off current} & V_{CB} = -50 \ V; \ I_E = 0 \ A; \ T_{amb} = 25 \ ^{\circ}C \\ \mbox{collector-emitter cut-off current} & V_{CE} = -30 \ V; \ I_B = 0 \ A; \ T_{amb} = 25 \ ^{\circ}C \\ \hline V_{CE} = -30 \ V; \ I_B = 0 \ A; \ T_{j} = 150 \ ^{\circ}C \\ \mbox{emitter-base cut-off current} & V_{EB} = -5 \ V; \ I_C = 0 \ A; \ T_{amb} = 25 \ ^{\circ}C \\ \hline DC \ current \ gain & V_{CE} = -5 \ V; \ I_C = -5 \ mA; \ T_{amb} = 25 \ ^{\circ}C \\ \mbox{collector-emitter saturation voltage} & I_C = -10 \ mA; \ I_B = -0.5 \ mA; \ T_{amb} = 25 \ ^{\circ}C \\ \hline on-state \ input \ voltage & V_{CE} = -5 \ V; \ I_C = -100 \ \muA; \ T_{amb} = 25 \ ^{\circ}C \\ \hline bias \ resistor \ 1 \ (input) & T_{amb} = 25 \ ^{\circ}C \\ \hline bias \ resistor \ 1 \ (input) & T_{amb} = 25 \ ^{\circ}C \\ \hline bias \ resistor \ ratio & V_{CB} = -10 \ V; \ I_E = 0 \ A; \ i_e = 0 \ A; \\ \ f = 1 \ MHz; \ T_{amb} = 25 \ ^{\circ}C \\ \hline transition \ frequency & V_{CE} = -5 \ V; \ I_C = -10 \ mA; \ f = 100 \ MHz; \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	$\begin{array}{c c} \mbox{collector-base cut-off} & V_{CB} = -50 \mbox{ V; } I_E = 0 \mbox{ A; } T_{amb} = 25 \mbox{ °C} & - \\ \hline \mbox{current} & V_{CE} = -30 \mbox{ V; } I_B = 0 \mbox{ A; } T_{amb} = 25 \mbox{ °C} & - \\ \hline \mbox{vc} = -30 \mbox{ V; } I_B = 0 \mbox{ A; } T_j = 150 \mbox{ °C} & - \\ \hline \mbox{vc} = -30 \mbox{ V; } I_B = 0 \mbox{ A; } T_j = 150 \mbox{ °C} & - \\ \hline \mbox{emitter-base cut-off} & V_{EB} = -5 \mbox{ V; } I_C = 0 \mbox{ A; } T_{amb} = 25 \mbox{ °C} & - \\ \hline \mbox{current} & V_{CE} = -5 \mbox{ V; } I_C = -5 \mbox{ mA; } T_{amb} = 25 \mbox{ °C} & - \\ \hline \mbox{collector-emitter} & I_C = -10 \mbox{ mA; } I_B = -0.5 \mbox{ mA; } T_{amb} = 25 \mbox{ °C} & - \\ \hline \mbox{collector-emitter} & I_C = -10 \mbox{ mA; } I_B = -0.5 \mbox{ mA; } T_{amb} = 25 \mbox{ °C} & - \\ \hline \mbox{on-state input voltage} & V_{CE} = -5 \mbox{ V; } I_C = -5 \mbox{ mA; } T_{amb} = 25 \mbox{ °C} & - \\ \hline \mbox{on-state input voltage} & V_{CE} = -0.3 \mbox{ V; } I_C = -5 \mbox{ mA; } T_{amb} = 25 \mbox{ °C} & - \\ \hline \mbox{on-state input voltage} & V_{CE} = -0.3 \mbox{ V; } I_C = -5 \mbox{ mA; } T_{amb} = 25 \mbox{ °C} & - \\ \hline \mbox{on-state input voltage} & V_{CE} = -10 \mbox{ V}; I_C = -5 \mbox{ mA; } T_{amb} = 25 \mbox{ °C} & - \\ \hline \mbox{on-state input voltage} & V_{CE} = -10 \mbox{ V}; I_C = -0 \mbox{ A}; I_e = 0 \mbox{ A}; \\ \mbox{bias resistor ratio} & 0.8 \\ \hline \mbox{collector capacitance} & V_{CB} = -10 \ V; I_E = 0 \mbox{ A}; I_e = 0 \ A; \\ \mbox{f} = 1 \ \mbox{ MHz}; \ T_{amb} = 25 \ \mbox{ °C} & - \\ \hline \mbox{f} = 100 \ \mbox{ MHz}; \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	collector-base cut-off current $V_{CB} = -50 \text{ V}; \text{ I}_E = 0 \text{ A}; \text{ T}_{amb} = 25 \text{ °C}$ - - collector-emitter cut-off current $V_{CE} = -30 \text{ V}; \text{ I}_B = 0 \text{ A}; \text{ T}_{amb} = 25 \text{ °C}$ - - emitter-base cut-off current $V_{CE} = -30 \text{ V}; \text{ I}_B = 0 \text{ A}; \text{ T}_j = 150 \text{ °C}$ - - emitter-base cut-off current $V_{CE} = -30 \text{ V}; \text{ I}_E = 0 \text{ A}; \text{ T}_{amb} = 25 \text{ °C}$ - - DC current gain $V_{CE} = -5 \text{ V}; \text{ I}_C = -5 \text{ mA}; \text{ T}_{amb} = 25 \text{ °C}$ 60 - collector-emitter saturation voltage $I_C = -10 \text{ mA}; \text{ I}_B = -0.5 \text{ mA}; \text{ T}_{amb} = 25 \text{ °C}$ - - off-state input voltage $V_{CE} = -5 \text{ V}; \text{ I}_C = -100 \mu\text{ A}; \text{ T}_{amb} = 25 \text{ °C}$ - - on-state input voltage $V_{CE} = -0.3 \text{ V}; \text{ I}_C = -5 \text{ mA}; \text{ T}_{amb} = 25 \text{ °C}$ - - bias resistor 1 (input) $\text{T}_{amb} = 25 \text{ °C}$ 15.4 22 bias resistor ratio 0.8 1 - - collector capacitance $V_{CB} = -10 \text{ V}; \text{ I}_E = 0 \text{ A}; \text{ I}_e = 0 \text{ A};$ - - transition frequency $V_{CE} = -5 \text{ V}; \text{ I}_C = -10 \text{ mA}; f = 100 \text{ MHz};$ 11 - - <td>collector-base cut-off current $V_{CB} = -50 \text{ V}; I_E = 0 \text{ A}; T_{amb} = 25 \text{ °C}$ - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -</td>	collector-base cut-off current $V_{CB} = -50 \text{ V}; I_E = 0 \text{ A}; T_{amb} = 25 \text{ °C}$ - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

[1] Characteristics of built-in transistor.



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PNP resistor-equipped transistor; R1 = 22 k Ω , R2 = 22 k Ω



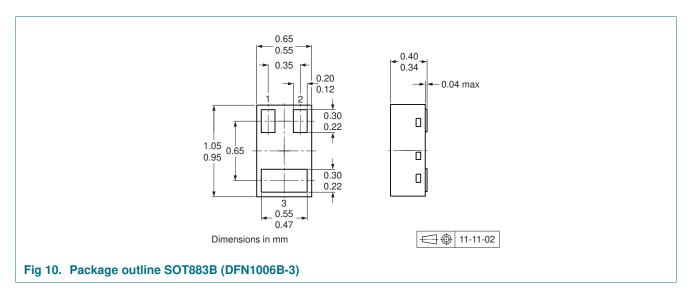
8. Test information

8.1 Quality information

This product has been qualified in accordance with the Automotive Electronics Council (AEC) standard Q101 - Stress test qualification for discrete semiconductors, and is suitable for use in automotive applications.

PNP resistor-equipped transistor; R1 = 22 k Ω , R2 = 22 k Ω

Package outline 9.



10. Soldering

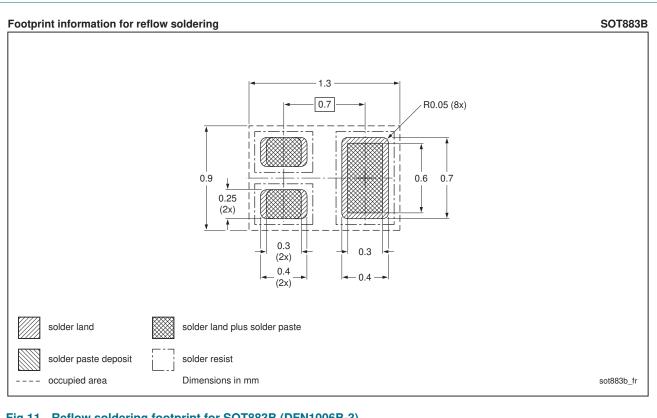


Fig 11. Reflow soldering footprint for SOT883B (DFN1006B-3)

PDTA124EMB **Product data sheet**

PNP resistor-equipped transistor; R1 = 22 k Ω , R2 = 22 k Ω

11. Revision history

Table 8.Revision	history			
Document ID	Release date	Data sheet status	Change notice	Supersedes
PDTA124EMB v.2	20120504	Product data sheet	-	PDTA124EMB v.1
Modifications:	• 7 "Characteris	stics": parameter name corre	ected	
PDTA124EMB v.1	20120426	Product data sheet	-	-

PNP resistor-equipped transistor; R1 = 22 k Ω , R2 = 22 k Ω

12. Legal information

12.1 Data sheet status

Document status[1] [2]	Product status ^[3]	Definition
Objective [short] data sheet	Development	This document contains data from the objective specification for product development.
Preliminary [short] data sheet	Qualification	This document contains data from the preliminary specification.
Product [short] data sheet	Production	This document contains the product specification.

[1] Please consult the most recently issued document before initiating or completing a design.

[2] The term 'short data sheet' is explained in section "Definitions".

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Product data sheet

PDTA124EMB

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PNP resistor-equipped transistor; R1 = 22 k Ω , R2 = 22 k Ω

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PNP resistor-equipped transistor; R1 = 22 k Ω , R2 = 22 k Ω

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