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NPN resistor-equipped transistor; R1 = 10 kΩ, R2 = 10 kΩRev. 1 — 21 June 2012Product data s

Product data sheet

Product profile 1.

1.1 General description

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

PNP complement: PDTA114EMB.

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

Quick reference date

Table 4

- Low-current peripheral driver
- Control of IC inputs

- Simplifies circuit design
- AEC-Q101 qualified
- 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	7	10	13	kΩ
R2/R1	bias resistor ratio		0.8	1	1.2	



NPN resistor-equipped transistor; R1 = 10 k Ω , R2 = 10 k Ω

2. Pinning information

Table 2.	Pinning	j information		
Pin	Symbol	Description	Simplified outline	Graphic symbol
1	I	input (base)		
2	G	GND (emitter)		3
3	0	output (collector)	2 Transparent top view DFN1006B-3 (SOT883B)	1 R2 R2 sym007 2

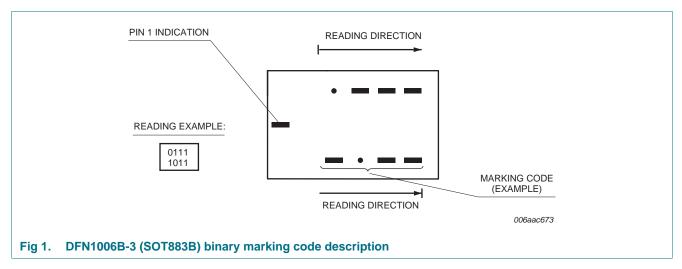
3. Ordering information

Table 3. Ordering information							
Type number	Package						
	Name	Description	Version				
PDTC114EMB	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
PDTC114EMB	0100 1010



NPN resistor-equipped transistor; R1 = 10 k Ω , R2 = 10 k Ω

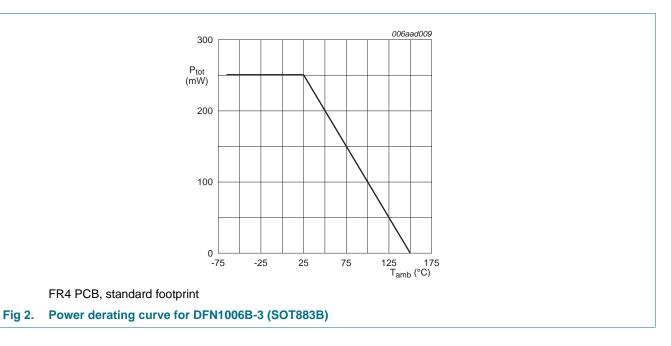
5. Limiting values

Table 5. Limiting values

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

Parameter	Conditions		Min	Max	Unit
collector-base voltage	open emitter		-	50	V
collector-emitter voltage	open base		-	50	V
emitter-base voltage	open collector		-	10	V
input voltage	positive		-	40	V
	negative		-	-10	V
output current			-	100	mA
peak collector current	pulsed; t _p ≤ 1 ms		-	100	mA
total power dissipation	T _{amb} ≤ 25 °C	[1]	-	250	mW
junction temperature			-	150	°C
ambient temperature			-65	150	°C
storage temperature			-65	150	°C
	 collector-base voltage collector-emitter voltage emitter-base voltage input voltage output current peak collector current total power dissipation junction temperature ambient temperature 	collector-base voltageopen emittercollector-emitter voltageopen baseemitter-base voltageopen collectorinput voltagepositivenegativenegativeoutput currentpulsed; $t_p \le 1 \text{ ms}$ total power dissipation $T_{amb} \le 25 \text{ °C}$ junction temperatureambient temperature	collector-base voltageopen emittercollector-emitter voltageopen baseemitter-base voltageopen collectorinput voltagepositivenegativenegativeoutput currentpulsed; $t_p \le 1$ mstotal power dissipation $T_{amb} \le 25 \text{ °C}$ junction temperature[1]	collector-base voltageopen emitter-collector-emitter voltageopen base-emitter-base voltageopen collector-input voltagepositive-negative-output currentpulsed; $t_p \le 1 \text{ ms}$ -peak collector currentpulsed; $t_p \le 1 \text{ ms}$ -junction temperatureambient temperature65	collector-base voltageopen emitter-50collector-emitter voltageopen base-50emitter-base voltageopen collector-10input voltagepositive-40negative10output current-100peak collector currentpulsed; $t_p \le 1 \text{ ms}$ -100total power dissipation $T_{amb} \le 25 \text{ °C}$ 11-250junction temperature-150150

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

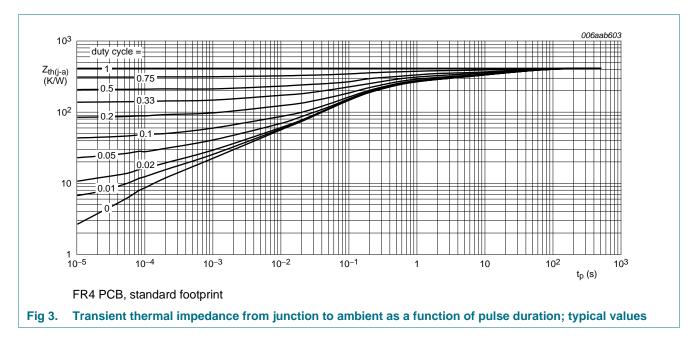


NPN resistor-equipped transistor; R1 = 10 k Ω , R2 = 10 k Ω

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	<u>[1]</u>	-	-	500	K/W

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

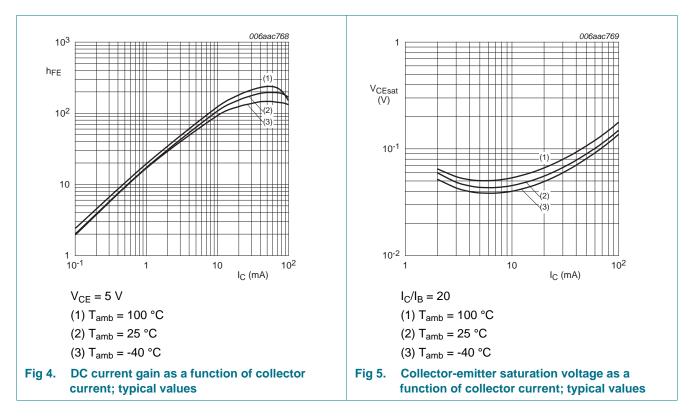


NPN resistor-equipped transistor; R1 = 10 k Ω , R2 = 10 k Ω

7. Characteristics

Characteristics						
Parameter	Conditions		Min	Тур	Max	Unit
collector-base cut-off current	V_{CB} = 50 V; I _E = 0 A; T _{amb} = 25 °C		-	-	100	nA
collector-emitter cut-off	$V_{CE} = 30 \text{ V}; \text{ I}_{B} = 0 \text{ A}; \text{ T}_{amb} = 25 \text{ °C}$		-	-	1	μA
current	$V_{CE} = 30 \text{ V}; \text{ I}_{B} = 0 \text{ A}; \text{ T}_{j} = 150 \text{ °C}$		-	-	5	μA
emitter-base cut-off current	V_{EB} = 5 V; I_C = 0 A; T_{amb} = 25 °C		-	-	400	μΑ
DC current gain	V_{CE} = 5 V; I _C = 5 mA; T _{amb} = 25 °C		30	-	-	
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 µA; T _{amb} = 25 °C		-	1.1	0.8	V
on-state input voltage	V_{CE} = 0.3 V; I _C = 10 mA; T _{amb} = 25 °C		2.5	1.8	-	V
bias resistor 1 (input)	T _{amb} = 25 °C		7	10	13	kΩ
bias resistor ratio			0.8	1	1.2	
collector capacitance	V _{CB} = 10 V; I _E = 0 A; i _e = 0 A; f = 1 MHz; T _{amb} = 25 °C		-	-	2.5	pF
transition frequency	V_{CE} = 5 V; I _C = 10 mA; f = 100 MHz; T _{amb} = 25 °C	<u>[1]</u>	-	230	-	MHz
	Parametercollector-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) bias resistor ratio collector capacitance	ParameterConditionscollector-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 $V_{CE} = 30 \text{ V}; \text{ I}_B = 0 \text{ A}; \text{ T}_{amb} = 25 \text{ °C}$ weighted by the constraint of the current $V_{CE} = 30 \text{ V}; \text{ I}_B = 0 \text{ A}; \text{ T}_j = 150 \text{ °C}$ emitter-base cut-off current $V_{EB} = 5 \text{ V}; \text{ I}_C = 0 \text{ A}; \text{ T}_{amb} = 25 \text{ °C}$ DC current gain $V_{CE} = 5 \text{ V}; \text{ I}_C = 5 \text{ mA}; \text{ T}_{amb} = 25 \text{ °C}$ 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 $V_{CE} = 5 \text{ V}; 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\text{ I}_B = 0 \text{ A}; \text{ T}_{amb} = 25 ^{\circ}\text{C}$ 1vce = 30 V; I_B = 0 \text{ A}; T_{amb} = 25 ^{\circ}\text{C}5emitter-base cut-off current $V_{EB} = 5 \text{ V}; \text{ I}_C = 0 \text{ A}; \text{ T}_{amb} = 25 ^{\circ}\text{C}$ 400DC current gain $V_{CE} = 5 \text{ V}; \text{ I}_C = 5 \text{ mA}; \text{ T}_{amb} = 25 ^{\circ}\text{C}$ 30collector-emitter saturation voltageIc = 10 mA; I_B = 0.5 mA; T_{amb} = 25 ^{\circ}\text{C}-1.10.8off-state input voltage $V_{CE} = 5 \text{ V}; \text{ Ic} = 100 \ \mu\text{A}; \text{ T}_{amb} = 25 ^{\circ}\text{C}$ -1.10.8on-state input voltage $V_{CE} = 5 \text{ V}; \text{ Ic} = 10 \text{ mA}; \text{ T}_{amb} = 25 ^{\circ}\text{C}$ -1.10.8bias resistor 1 (input) $T_{amb} = 25 ^{\circ}\text{C}$ 71013bias resistor ratio0.811.2collector capacitance $V_{CB} = 10 \text{ V}; \text{ I}_E = 0 \text{ A}; \text{ I}_E = 0 \text{ A};$

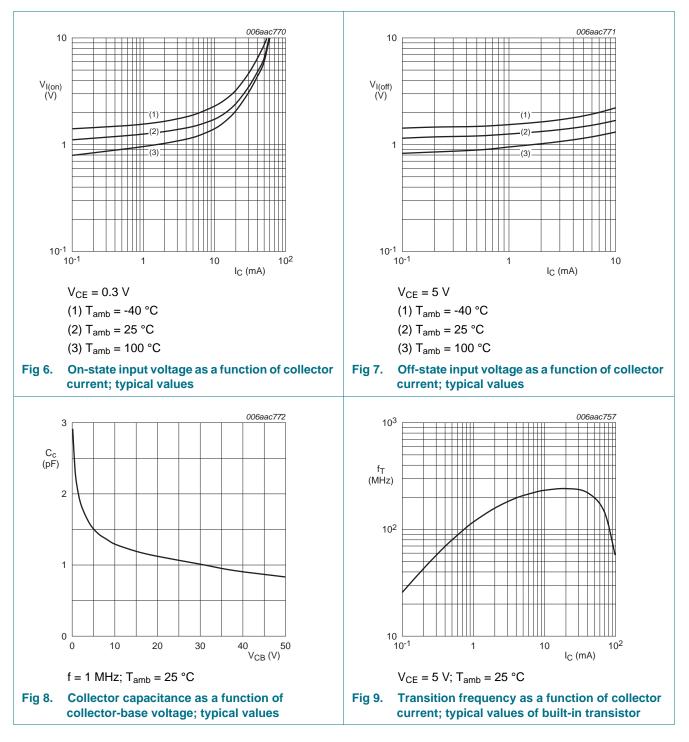
[1] Characteristics of built-in transistor.



NXP Semiconductors

PDTC114EMB

NPN resistor-equipped transistor; R1 = 10 k Ω , R2 = 10 k Ω



8. Test information

8.1 Quality information

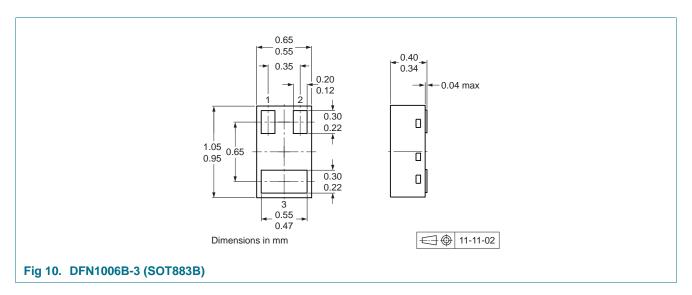
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PDTC114EMB

NPN resistor-equipped transistor; R1 = 10 k Ω , R2 = 10 k Ω

Package outline 9.



10. Soldering

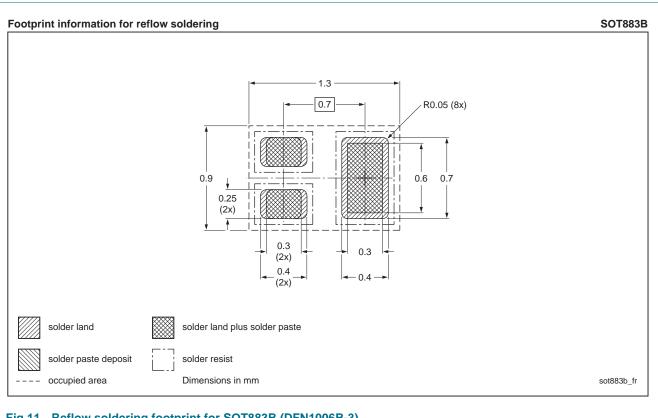


Fig 11. Reflow soldering footprint for SOT883B (DFN1006B-3)

PDTC114EMB **Product data sheet**

7 of 11

NPN resistor-equipped transistor; R1 = 10 k Ω , R2 = 10 k Ω

11. Revision history

Table 8. Revision h	nistory			
Document ID	Release date	Data sheet status	Change notice	Supersedes
PDTC114EMB v.1	20120621	Product data sheet	-	-

NPN resistor-equipped transistor; R1 = 10 k Ω , R2 = 10 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.
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Product data sheet

PDTC114EMB

NPN resistor-equipped transistor; R1 = 10 k Ω , R2 = 10 k Ω

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NPN resistor-equipped transistor; R1 = 10 k Ω , R2 = 10 k Ω

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Date of release: 21 June 2012 Document identifier: PDTC114EMB

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