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PNP resistor-equipped transistor; R1 = 10 kΩ, R2 = 47 kΩRev. 1 — 16 May 2012Product data s

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: PDTC114YMB.

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		3.7	4.7	5.7	



PNP resistor-equipped transistor; R1 = 10 k Ω , R2 = 47 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 SOT883B (DFN1006B-3)	1 R1 R2 2 sym003

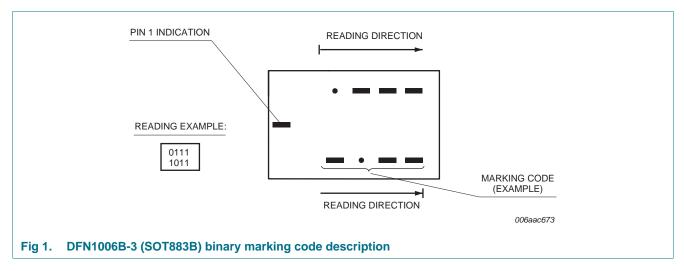
3. Ordering information

Table 3. Ordering information						
Type number	Package					
	Name	Description	Version			
PDTA114YMB	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
PDTA114YMB	0001 1111



PNP resistor-equipped transistor; R1 = 10 k Ω , R2 = 47 k Ω

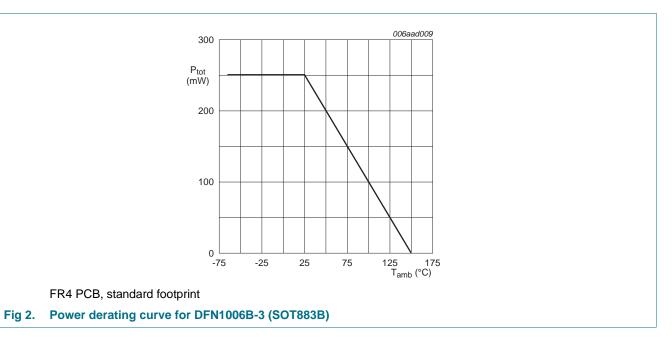
5. Limiting values

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		-	-6	V
VI	input voltage	positive		-	6	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.

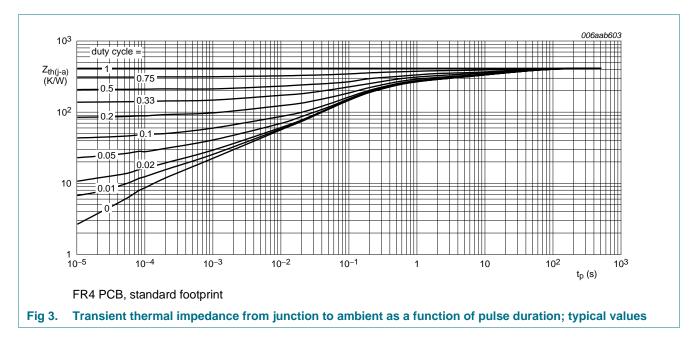


PNP resistor-equipped transistor; R1 = 10 k Ω , R2 = 47 k Ω

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.

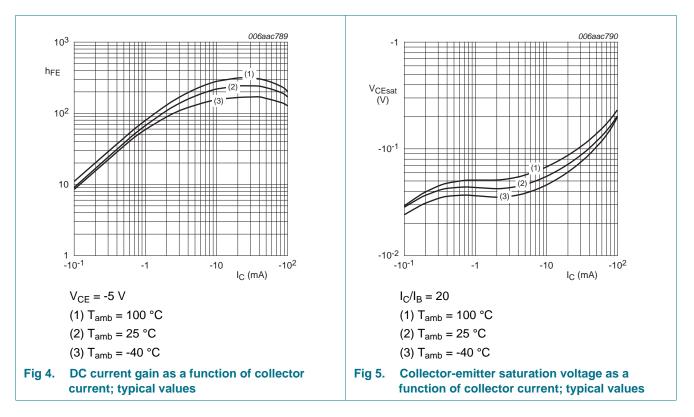


PNP resistor-equipped transistor; R1 = 10 k Ω , R2 = 47 k Ω

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		-	-	-150	μA
DC current gain	V_{CE} = -5 V; I _C = -5 mA; T _{amb} = 25 °C		100	-	-	
collector-emitter saturation voltage	I_C = -5 mA; I_B = -0.25 mA; T_{amb} = 25 °C		-	-	-100	mV
off-state input voltage	V_{CE} = -5 V; I_C = -100 µA; T_{amb} = 25 °C		-	-0.7	-0.5	V
on-state input voltage	V_{CE} = -0.3 V; I_{C} = -1 mA; T_{amb} = 25 °C		-1.4	-0.8	-	V
bias resistor 1 (input)	T _{amb} = 25 °C		7	10	13	kΩ
bias resistor ratio			3.7	4.7	5.7	
collector capacitance	V_{CB} = -10 V; I _E = 0 A; i _e = 0 A; f = 1 MHz; T _{amb} = 25 °C		-	-	3	pF
transition frequency	V_{CE} = -5 V; I _C = -10 mA; f = 100 MHz; T _{amb} = 25 °C	<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) bias resistor ratio collector capacitance	$\begin{array}{ll} \mbox{collector-base cut-off} & V_{CB} = -50 \ V; \ I_E = 0 \ A; \ T_{amb} = 25 \ ^{\circ}\text{C} \\ \mbox{current} & V_{CE} = -30 \ V; \ I_B = 0 \ A; \ T_{amb} = 25 \ ^{\circ}\text{C} \\ \hline V_{CE} = -30 \ V; \ I_B = 0 \ A; \ T_{j} = 150 \ ^{\circ}\text{C} \\ \hline V_{CE} = -30 \ V; \ I_B = 0 \ A; \ T_{j} = 150 \ ^{\circ}\text{C} \\ \hline V_{CE} = -30 \ V; \ I_B = 0 \ A; \ T_{amb} = 25 \ ^{\circ}\text{C} \\ \hline V_{CE} = -5 \ V; \ I_C = 0 \ A; \ T_{amb} = 25 \ ^{\circ}\text{C} \\ \hline \text{current} & V_{CE} = -5 \ V; \ I_C = -5 \ \text{mA}; \ T_{amb} = 25 \ ^{\circ}\text{C} \\ \hline \text{collector-emitter} & I_C = -5 \ \text{mA}; \ I_B = -0.25 \ \text{mA}; \ T_{amb} = 25 \ ^{\circ}\text{C} \\ \hline \text{collector-emitter} & I_C = -5 \ \text{V}; \ I_C = -100 \ \mu\text{A}; \ T_{amb} = 25 \ ^{\circ}\text{C} \\ \hline \text{on-state input voltage} & V_{CE} = -0.3 \ V; \ I_C = -1 \ \text{mA}; \ T_{amb} = 25 \ ^{\circ}\text{C} \\ \hline \text{bias resistor 1 (input)} & T_{amb} = 25 \ ^{\circ}\text{C} \\ \hline \text{bias resistor ratio} \\ \hline \text{collector capacitance} & V_{CB} = -10 \ V; \ I_E = 0 \ \text{A}; \ i_e = 0 \ \text{A}; \\ f = 1 \ \text{MHz}; \ T_{amb} = 25 \ ^{\circ}\text{C} \\ \hline \text{transition frequency} & V_{CE} = -5 \ V; \ I_C = -10 \ \text{mA}; \ f = 100 \ \text{MHz}; \end{array}$	$\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 = -5 \ mA; \ T_{amb} = 25 \ ^{\circ}C \\ \hline collector-emitter \ saturation \ voltage & V_{CE} = -5 \ V; \ I_C = -100 \ \muA; \ T_{amb} = 25 \ ^{\circ}C \\ \hline on-state \ input \ voltage & V_{CE} = -0.3 \ V; \ I_C = -1 \ mA; \ 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} \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 & - \\ \mbox{V}_{CE} = -30 \ V; \ I_B = 0 \ A; \ T_j = 150 \ ^{\circ}C & - \\ \mbox{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 & - \\ \mbox{DC current gain} & V_{CE} = -5 \ V; \ I_C = -5 \ MA; \ T_{amb} = 25 \ ^{\circ}C & - \\ \mbox{collector-emitter saturation voltage} & I_C = -5 \ MA; \ I_B = -0.25 \ MA; \ T_{amb} = 25 \ ^{\circ}C & - \\ \mbox{on-state input voltage} & V_{CE} = -5 \ V; \ I_C = -100 \ \mu A; \ T_{amb} = 25 \ ^{\circ}C & - \\ \mbox{on-state input voltage} & V_{CE} = -5 \ V; \ I_C = -1 \ MA; \ T_{amb} = 25 \ ^{\circ}C & - \\ \mbox{ollector capacitance} & V_{CB} = -10 \ V; \ I_E = 0 \ A; \ i_e = 0 \ A; \\ \mbox{f} = 1 \ MHz; \ T_{amb} = 25 \ ^{\circ}C & - \\ \mbox{f} = 100 \ 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 $V_{EB} = -5 \text{ V}; \text{ I}_C = 0 \text{ A}; \text{ T}_{amb} = 25 \text{ °C}$ DC current gain $V_{CE} = -5 \text{ V}; \text{ I}_C = -5 \text{ mA}; \text{ T}_{amb} = 25 \text{ °C}$ 100-collector-emitter saturation voltageI_C = -5 mA; I_B = -0.25 mA; 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 $V_{CE} = -5 \text{ V}; \text{ I}_C = -1 \text{ mA}; \text{ T}_{amb} = 25 \text{ °C}$ bias resistor 1 (input) $\text{T}_{amb} = 25 \text{ °C}$ 710bias resistor ratio 3.7 4.7 collector capacitance $V_{CB} = -10 \text{ V}; \text{ I}_E = 0 \text{ A}; \text{ I}_e = 0 $	collector-base cut-off current $V_{CB} = -50 \text{ V}; \text{ I}_E = 0 \text{ A}; \text{ T}_{amb} = 25 \text{ °C}$ - -

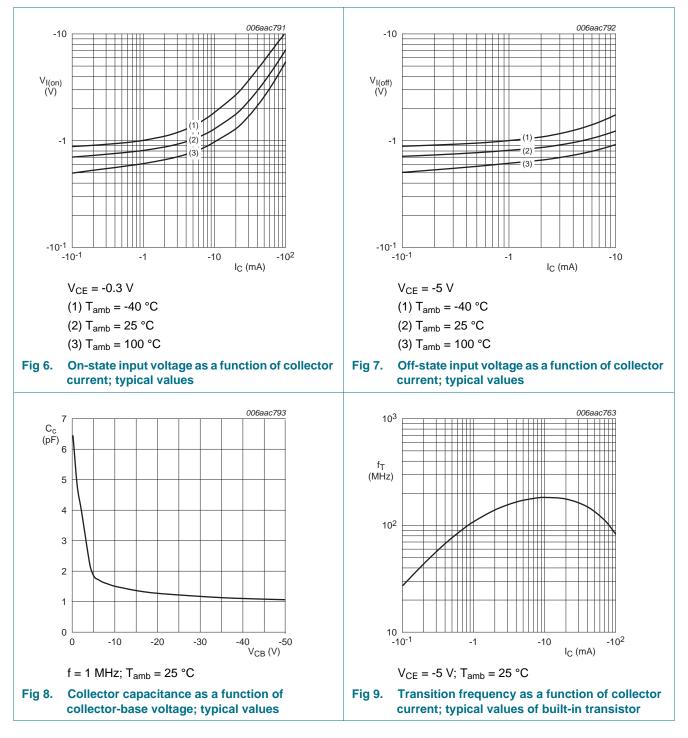
[1] Characteristics of built-in transistor.



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PDTA114YMB

PNP resistor-equipped transistor; R1 = 10 k Ω , R2 = 47 k Ω



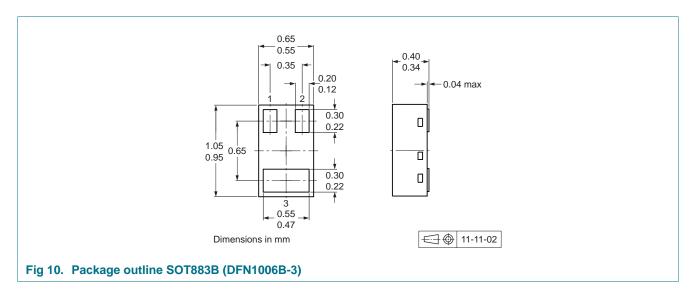
8. Test information

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 = 10 k Ω , R2 = 47 k Ω

Package outline 9.



10. Soldering

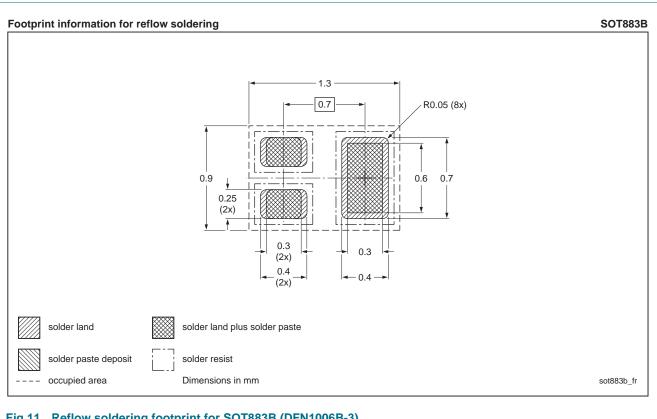


Fig 11. Reflow soldering footprint for SOT883B (DFN1006B-3)

PDTA114YMB **Product data sheet**

PNP resistor-equipped transistor; R1 = 10 k Ω , R2 = 47 k Ω

11. Revision history

Table 8. Revision I	8. Revision history						
Document ID	Release date	Data sheet status	Change notice	Supersedes			
PDTA114YMB v.1	20120516	Product data sheet	-	-			

PNP resistor-equipped transistor; $R1 = 10 k\Omega$, $R2 = 47 k\Omega$

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

PDTA114YMB

PNP resistor-equipped transistor; $R1 = 10 \text{ k}\Omega$, $R2 = 47 \text{ k}\Omega$

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PNP resistor-equipped transistor; R1 = 10 k Ω , R2 = 47 k Ω

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Date of release: 16 May 2012 Document identifier: PDTA114YMB

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