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Kind regards,

Team Nexperia

# PDTA113E series

PNP resistor-equipped transistors; R1 = 1 k $\Omega$ , R2 = 1 k $\Omega$ 

Rev. 05 — 2 September 2009

Product data sheet

## 1. Product profile

#### 1.1 General description

PNP Resistor-Equipped Transistors (RET).

Table 1. Product overview

Type number	Package	NPN		
	NXP	JEITA	JEDEC	complement
PDTA113EE	SOT416	SC-75	-	PDTC113EE
PDTA113EK	SOT346	SC-59A	TO-236	PDTC113EK
PDTA113EM	SOT883	SC-101	-	PDTC113EM
PDTA113ES[1]	SOT54 (TO-92)	SC-43A	TO-92	PDTC113ES
PDTA113ET	SOT23	-	TO-236AB	PDTC113ET
PDTA113EU	SOT323	SC-70	-	PDTC113EU

<sup>[1]</sup> Also available in SOT54A and SOT54 variant packages (see Section 2)

#### 1.2 Features

- Built-in bias resistors
- Simplifies circuit design
- Reduces component count
- Reduces pick and place costs

### 1.3 Applications

- General purpose switching and amplification
- Inverter and interface circuits

#### Circuit drivers

#### 1.4 Quick reference data

Table 2. Quick reference data

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
$V_{CEO}$	collector-emitter voltage	open base	-	-	-50	V
I <sub>O</sub>	output current (DC)		-	-	-100	mA
R1	bias resistor 1 (input)		0.7	1	1.3	$k\Omega$
R2/R1	bias resistor ratio		0.8	1	1.2	



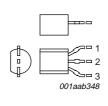
# 2. Pinning information

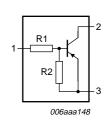
Table 3. Pinning

Pin	Description	Simplified outline Symbol
SOT54		
1	input (base)	
2	output (collector)	R1 L2
3	GND (emitter)	001aab347 R2 R2 006aaa148

<b>3</b> U	1 34	ŧΑ

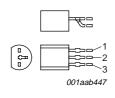
1	input (base)
2	output (collector)
3	GND (emitter)

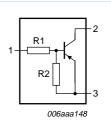




#### **SOT54** variant

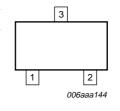
1	input (base)
2	output (collector)
3	GND (emitter)

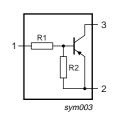




### SOT23, SOT323, SOT346, SOT416

1	input (base)
2	GND (emitter)
3	output (collector)

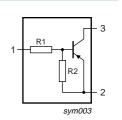




#### **SOT883**

1	input (base)
2	GND (emitter)
3	output (collector)





PDTA113E\_SER\_5

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# 3. Ordering information

Table 4. Ordering information

Package				
Name	Description	Version		
SC-75	plastic surface mounted package; 3 leads	SOT416		
SC-59A	plastic surface mounted package; 3 leads	SOT346		
SC-101	leadless ultra small plastic package; 3 solder lands; body 1.0 $\times$ 0.6 $\times$ 0.5 mm	SOT883		
SC-43A	plastic single-ended leaded (through hole) package; 3 leads	SOT54		
-	plastic surface mounted package; 3 leads	SOT23		
SC-70	plastic surface mounted package; 3 leads	SOT323		
	Name SC-75 SC-59A SC-101 SC-43A	Name Description  SC-75 plastic surface mounted package; 3 leads  SC-59A plastic surface mounted package; 3 leads  SC-101 leadless ultra small plastic package; 3 solder lands; body 1.0 × 0.6 × 0.5 mm  SC-43A plastic single-ended leaded (through hole) package; 3 leads  - plastic surface mounted package; 3 leads		

<sup>[1]</sup> Also available in SOT54A and SOT54 variant packages (see Section 2 and Section 9).

# 4. Marking

Table 5. Marking codes

indicate in the second	
Type number	Marking code <sup>[1]</sup>
PDTA113EE	16
PDTA113EK	17
PDTA113EM	G4
PDTA113ES	TA113E
PDTA113ET	*15
PDTA113EU	*14

<sup>[1] \* = -:</sup> made in Hong Kong

<sup>\* =</sup> p: made in Hong Kong

<sup>\* =</sup> t: made in Malaysia

<sup>\* =</sup> W: made in China

# 5. Limiting values

Table 6. 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		-	-10	V
Io	output current (DC)		-	-100	mA
I <sub>CM</sub>	peak collector current		-	-100	mA
P <sub>tot</sub>	total power dissipation	$T_{amb} \le 25  ^{\circ}C$			
	SOT416		<u>[1]</u> -	150	mW
	SOT346		[1] -	250	mW
	SOT883		[2][3]	250	mW
	SOT54		<u>[1]</u> -	500	mW
	SOT23		<u>[1]</u> -	250	mW
	SOT323		[1] -	200	mW
T <sub>stg</sub>	storage temperature		-65	+150	°C
T <sub>j</sub>	junction temperature		-	150	°C
T <sub>amb</sub>	ambient temperature		-65	+150	°C

<sup>[1]</sup> Refer to standard mounting conditions

#### 6. Thermal characteristics

Table 7. Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
$R_{th(j-a)}$	thermal resistance from junction to ambient	in free air				
	SOT416		<u>[1]</u> -	-	833	K/W
	SOT346		<u>[1]</u> _	-	500	K/W
	SOT883		[2][3]	-	500	K/W
	SOT54		<u>[1]</u> -	-	250	K/W
	SOT23		<u>[1]</u> -	-	500	K/W
	SOT323		<u>[1]</u> -	-	625	K/W

<sup>[1]</sup> Refer to standard mounting conditions.

<sup>[2]</sup> Reflow soldering is the only recommended soldering method.

<sup>[3]</sup> Refer to SOT883 standard mounting conditions; FR4 printed-circuit board with 60 µm copper strip line.

<sup>[2]</sup> Reflow soldering is the only recommended soldering method.

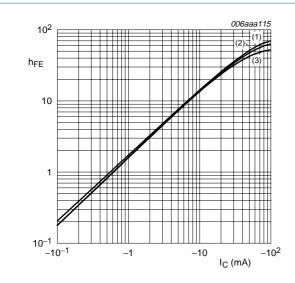
<sup>[3]</sup> Refer to SOT883 standard mounting conditions; FR4 printed-circuit board with 60 µm copper strip line.

# 7. Characteristics

Table 8. Characteristics

T<sub>amb</sub> = 25 °C unless otherwise specified

Parameter	Conditions	Min	Typ	May	Unit
		IVIIII	тур		Offic
collector-base cut-off current	$V_{CB} = -50 \text{ V}; I_E = 0 \text{ A}$	-	-	-100	nA
collector-emitter	$V_{CE} = -30 \text{ V}; I_B = 0 \text{ A}$	-	-	<b>–1</b>	μΑ
cut-off current	$V_{CE} = -30 \text{ V}; I_{B} = 0 \text{ A};$ $T_{j} = 150 ^{\circ}\text{C}$	-	-	-50	μΑ
emitter-base cut-off current	$V_{EB} = -5 \text{ V}; I_C = 0 \text{ A}$	-	-	-4	mA
DC current gain	$V_{CE} = -5 \text{ V}; I_{C} = -40 \text{ mA}$	30	-	-	
collector-emitter saturation voltage	$I_C = -30 \text{ mA}; I_B = -1.5 \text{ mA}$	-	-	-150	mV
off-state input voltage	$V_{CE} = -5 \text{ V}; I_{C} = -100 \mu\text{A}$	-	-1.3	-0.5	V
on-state input voltage	$V_{CE} = -300 \text{ mV}; I_{C} = -20 \text{ mA}$	-2	-1.7	-	V
bias resistor 1 (input)		0.7	1	1.3	kΩ
bias resistor ratio		0.8	1	1.2	
collector capacitance	$V_{CB} = -10 \text{ V}; I_E = i_e = 0 \text{ A};$ f = 1 MHz	-	-	2	pF
	current collector-emitter cut-off current  emitter-base cut-off current  DC current gain collector-emitter saturation voltage off-state input voltage on-state input voltage bias resistor 1 (input) bias resistor ratio	$ \begin{array}{llllllllllllllllllllllllllllllllllll$	$ \begin{array}{llllllllllllllllllllllllllllllllllll$	$ \begin{array}{c} \text{collector-base cut-off} \\ \text{current} \end{array} \hspace{0.5cm} V_{CB} = -50 \text{ V; } I_E = 0 \text{ A} \\ \text{collector-emitter} \\ \text{cut-off current} \end{array} \hspace{0.5cm} V_{CE} = -30 \text{ V; } I_B = 0 \text{ A} \\ \text{V}_{CE} = -30 \text{ V; } I_B = 0 \text{ A;} \\ \text{T}_j = 150  ^{\circ}\text{C} \end{array} \hspace{0.5cm} - \\ \text{emitter-base cut-off} \\ \text{current} \end{array} \hspace{0.5cm} V_{EB} = -5 \text{ V; } I_C = 0 \text{ A} \\ \text{current} \end{array} \hspace{0.5cm} - \\ \text{DC current gain} \hspace{0.5cm} V_{CE} = -5 \text{ V; } I_C = -40 \text{ mA} \\ \text{collector-emitter} \\ \text{saturation voltage} \end{array} \hspace{0.5cm} I_C = -30 \text{ mA; } I_B = -1.5 \text{ mA} \\ \text{off-state input voltage} \hspace{0.5cm} V_{CE} = -5 \text{ V; } I_C = -100  \mu\text{A} \\ \text{on-state input voltage} \hspace{0.5cm} V_{CE} = -300 \text{ mV; } I_C = -20 \text{ mA} \\ \text{bias resistor 1 (input)} \\ \text{bias resistor ratio} \hspace{0.5cm} 0.8 \hspace{0.5cm} 1 \\ \text{collector capacitance} \hspace{0.5cm} V_{CB} = -10 \text{ V; } I_E = i_e = 0 \text{ A;} \\ \text{-} \hspace{0.5cm} - \\ \text{-} \end{array} \hspace{0.5cm} - \\ \text{-} \end{array} \hspace{0.5cm} - \\ \text{-} \hspace{0.5cm} - \\ \text{-}$	$ \begin{array}{c} \text{collector-base cut-off current} & V_{CB} = -50 \text{ V}; \ I_E = 0 \text{ A} & - & - & -100 \\ \\ \text{collector-emitter} & V_{CE} = -30 \text{ V}; \ I_B = 0 \text{ A} & - & - & -1 \\ \\ \text{cut-off current} & V_{CE} = -30 \text{ V}; \ I_B = 0 \text{ A}; \\ \\ T_j = 150  ^{\circ}\text{C} & - & - & -50 \\ \\ \text{emitter-base cut-off current} & V_{EB} = -5 \text{ V}; \ I_C = 0 \text{ A} & - & - & -4 \\ \\ \text{DC current gain} & V_{CE} = -5 \text{ V}; \ I_C = -40 \text{ mA} & 30 & - & - \\ \text{collector-emitter} & I_C = -30 \text{ mA}; \ I_B = -1.5 \text{ mA} & - & - & -150 \\ \\ \text{off-state input voltage} & V_{CE} = -5 \text{ V}; \ I_C = -100  \mu\text{A} & - & -1.3 & -0.5 \\ \text{on-state input voltage} & V_{CE} = -300 \text{ mV}; \ I_C = -20 \text{ mA} & -2 & -1.7 & - \\ \\ \text{bias resistor 1 (input)} & 0.7 & 1 & 1.3 \\ \\ \text{bias resistor ratio} & 0.8 & 1 & 1.2 \\ \\ \text{collector capacitance} & V_{CB} = -10 \text{ V}; \ I_E = i_e = 0 \text{ A}; & - & - & - & 2 \\ \\ \end{array}$



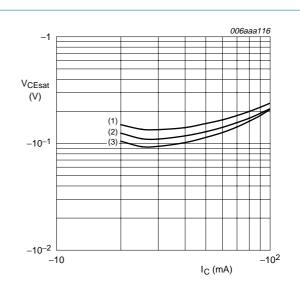
$$V_{CE} = -5 \text{ V}$$

(1) 
$$T_{amb} = 100 \, ^{\circ}C$$

(2) 
$$T_{amb} = 25 \, ^{\circ}C$$

(3) 
$$T_{amb} = -40 \, ^{\circ}C$$

Fig 1. DC current gain as a function of collector current; typical values



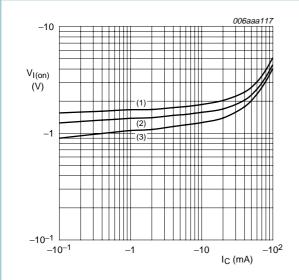
$$I_{\rm C}/I_{\rm B} = 20$$

(1) 
$$T_{amb} = 100 \, ^{\circ}C$$

(2) 
$$T_{amb} = 25 \, ^{\circ}C$$

(3) 
$$T_{amb} = -40 \, ^{\circ}C$$

Fig 2. Collector-emitter saturation voltage as a function of collector current; typical values



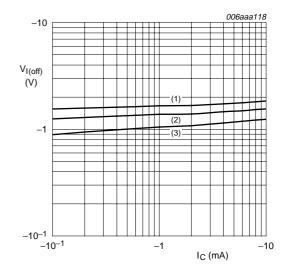
$$V_{CE} = -0.3 \text{ V}$$

(1) 
$$T_{amb} = -40 \, ^{\circ}C$$

(2) 
$$T_{amb} = 25 \, ^{\circ}C$$

(3) 
$$T_{amb} = 100 \, ^{\circ}C$$

Fig 3. On-state input voltage as a function of collector current; typical values



$$V_{CE} = -5 \text{ V}$$

(1) 
$$T_{amb} = -40 \, ^{\circ}C$$

(2) 
$$T_{amb} = 25 \, ^{\circ}C$$

(3) 
$$T_{amb} = 100 \, ^{\circ}C$$

Fig 4. Off-state input voltage as a function of collector current; typical values

# 8. Package outline

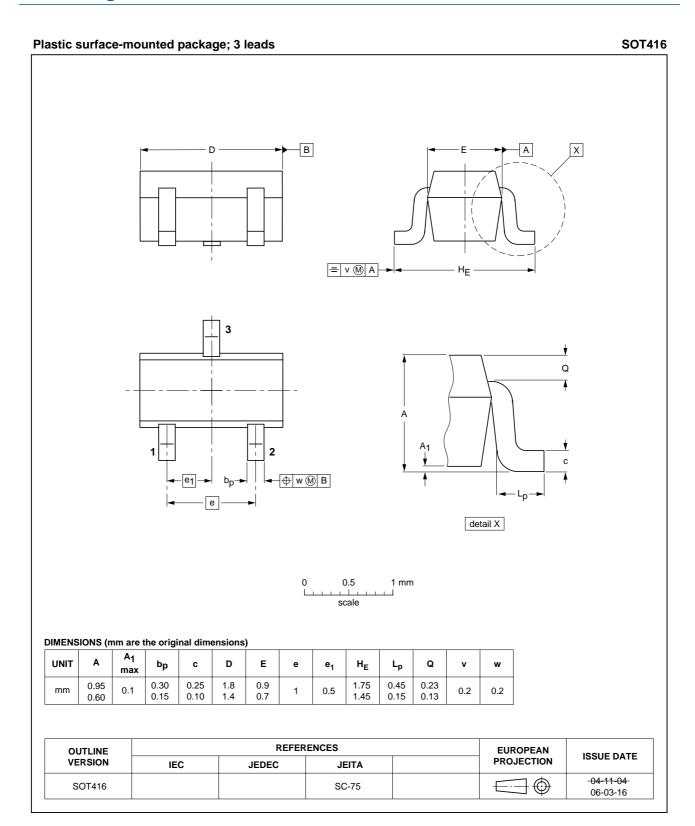


Fig 5. Package outline SOT416 (SC-75)

#### **SOT346** Plastic surface-mounted package; 3 leads Α В X = v M A $H_{\mathsf{E}}$ 3 Q 2 - ⊕ w M B detail X е **DIMENSIONS** (mm are the original dimensions) UNIT A<sub>1</sub> D Е $\mathbf{H}_{\mathbf{E}}$ Α bp С Q е e<sub>1</sub> $L_{p}$ w 1.3 0.1 0.50 0.26 0.33 3.1 1.7 3.0 0.6 0.95 0.2 1.9 0.2 0.35 0.10 1.3 **REFERENCES EUROPEAN** OUTLINE ISSUE DATE PROJECTION **VERSION** IEC **JEDEC** JEITA <del>-04-11-11</del> $\bigcirc$ SOT346 TO-236 SC-59A 06-03-16

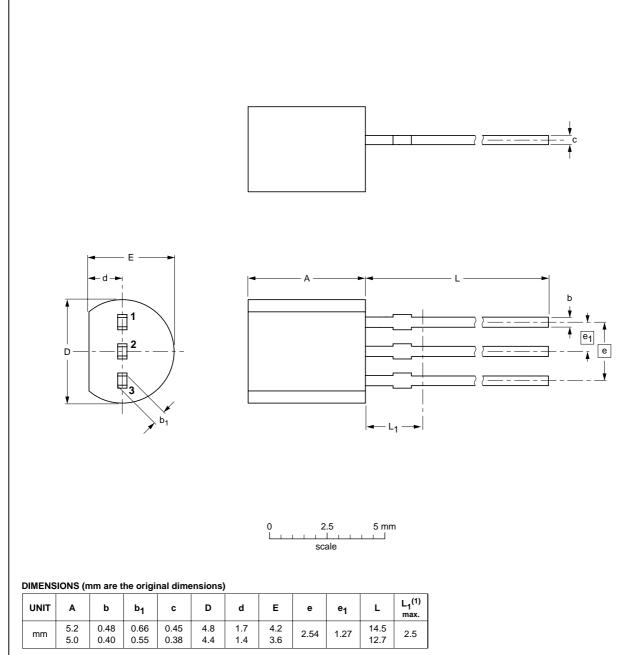
Fig 6. Package outline SOT346 (SC-59A/TO-236)

### Leadless ultra small plastic package; 3 solder lands; body 1.0 x 0.6 x 0.5 mm **SOT883** e<sub>1</sub> 0.5 | 1 mm **DIMENSIONS (mm are the original dimensions)** A<sub>1</sub> max. A<sup>(1)</sup> UNIT b $b_1$ D Ε e<sub>1</sub> L $L_{1}$ 0.30 0.55 0.30 0.50 0.20 0.62 1.02 mm 0.03 0.35 0.46 0.12 0.47 0.55 0.95 0.22 0.22 1. Including plating thickness REFERENCES OUTLINE **EUROPEAN** ISSUE DATE VERSION **PROJECTION JEDEC** 03-02-05 $\bigcirc$ SOT883 SC-101 03-04-03

Fig 7. Package outline SOT883 (SC-101)

#### Plastic single-ended leaded (through hole) package; 3 leads

SOT54



#### Note

1. Terminal dimensions within this zone are uncontrolled to allow for flow of plastic and terminal irregularities.

OUTLINE	REFERENCES				EUROPEAN	ISSUE DATE
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE
SOT54		TO-92	SC-43A			<del>04-06-28</del> 04-11-16

Fig 8. Package outline SOT54 (SC-43A/TO-92)

#### Plastic single-ended leaded (through hole) package; 3 leads (wide pitch)

SOT54A

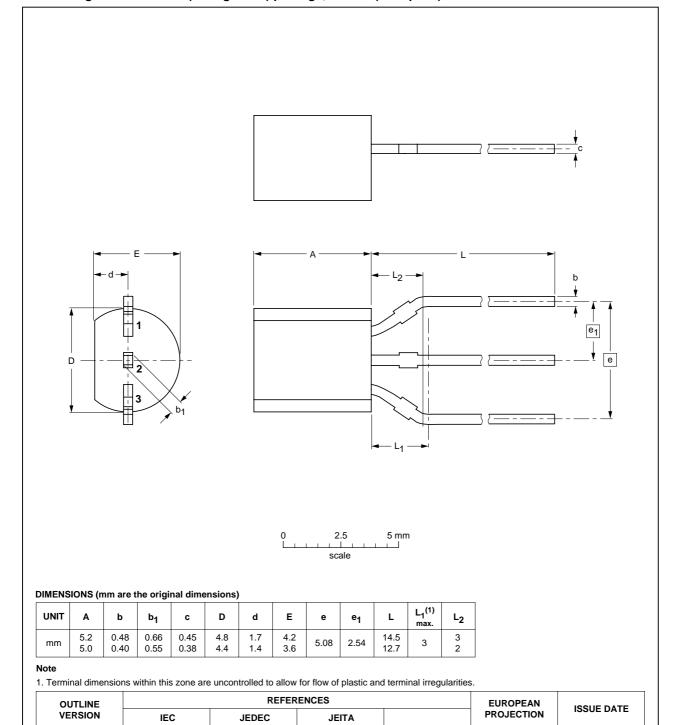


Fig 9. Package outline SOT54A

SOT54A

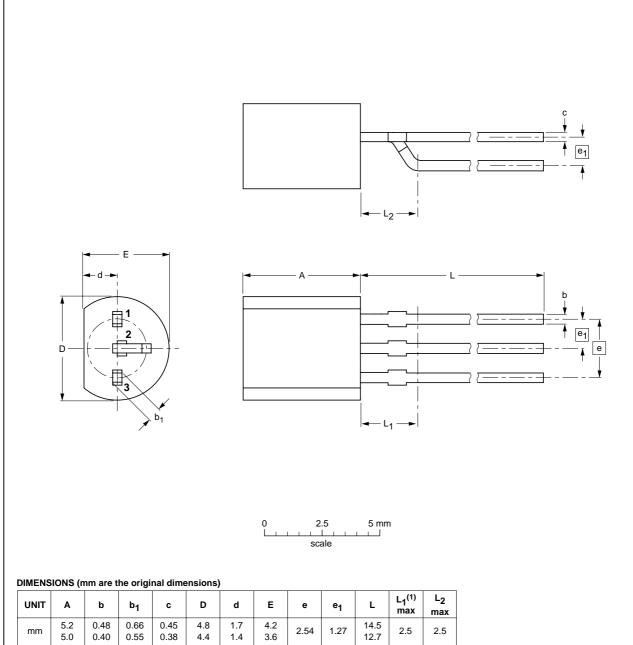
97-05-13

04-06-28

 $\odot$ 

#### Plastic single-ended leaded (through hole) package; 3 leads (on-circle)

SOT54 variant



#### . . .

1. Terminal dimensions within this zone are uncontrolled to allow for flow of plastic and terminal irregularities.

OUTLINE	REFERENCES				EUROPEAN	ISSUE DATE	
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE	
SOT54 variant						<del>-04-06-28</del> 05-01-10	

Fig 10. Package outline SOT54 variant

#### SOT23 Plastic surface-mounted package; 3 leads В Α Х = v M A $H_{\mathsf{E}}$ 3 2 e<sub>1</sub> **→** | w (M) B е detail X **DIMENSIONS** (mm are the original dimensions) Α<sub>1</sub> UNIT D Ε Α bp С $\mathbf{H}_{\mathsf{E}}$ $L_{p}$ Q е e<sub>1</sub> w max. 0.48 0.15 3.0 0.45 0.55 1.1 1.4 2.5 0.1 0.95 0.2 1.9 0.1 0.38 1.2 **REFERENCES EUROPEAN** OUTLINE ISSUE DATE PROJECTION **VERSION** IEC **JEDEC** JEITA 04-11-04 SOT23 TO-236AB 06-03-16

Fig 11. Package outline SOT23 (TO-236AB)

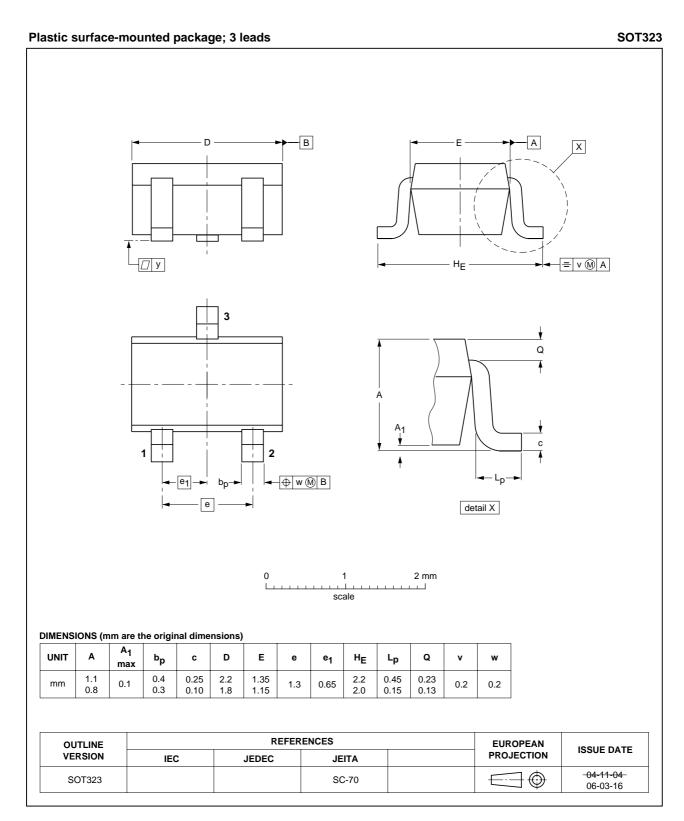


Fig 12. Package outline SOT323 (SC-70)

# **Packing information**

**Packing methods** Table 9.

The indicated -xxx are the last three digits of the 12NC ordering code. [1]

Type number	Package	Description	Packing (	Packing quantity		
			3000	5000	10000	
PDTA113EE	SOT416	4 mm pitch, 8 mm tape and reel	-115	·-	-135	
PDTA113EK	SOT346	4 mm pitch, 8 mm tape and reel	-115	•	-135	
PDTA113EM	SOT883	2 mm pitch, 8 mm tape and reel	-	•	-315	
PDTA113ES	SOT54	bulk, straight leads	-	-412	-	
	SOT54A	tape and reel, wide pitch	-	•	-116	
	SOT54A	tape ammopack, wide patch	-	•	-126	
	SOT54 variant	bulk, delta pinning	-	-112	-	
PDTA113ET	SOT23	4 mm pitch, 8 mm tape and reel	-215	-	-235	
PDTA113EU	SOT323	4 mm pitch, 8 mm tape and reel	-115	-	-135	

<sup>[1]</sup> For further information and the availability of packing methods, see Section 12.

# 10. Revision history

#### Table 10. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes			
PDTA113E_SER_5	20090902	Product data sheet	-	PDTA113E_SER_4			
Modifications:		<ul> <li>This data sheet was changed to reflect the new company name NXP Semiconductors, including new legal definitions and disclaimers. No changes were made to the technical content.</li> </ul>					
	<ul> <li>Figure 5 "Pack"</li> </ul>	age outline SOT416 (SC-	75)" updated				
	<ul> <li>Figure 6 "Pack"</li> </ul>	age outline SOT346 (SC-	59A/TO-236)" updated				
	<ul> <li>Figure 11 "Package outline SOT23 (TO-236AB)" updated</li> </ul>						
	<ul> <li>Figure 12 "Pac</li> </ul>	kage outline SOT323 (SC	<u>-70)"</u> updated				
PDTA113E_SER_4	20050405	Product data sheet	-	PDTA113ET_3			
PDTA113ET_3	20040720	Objective data sheet	-	PDTA113ET_2			
PDTA113ET_2	20040415	Objective data sheet	-	PDTA113ET_1			
PDTA113ET_1	20040316	Objective data sheet	-	-			

### 11. Legal information

#### 11.1 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"
- [3] The product status of device(s) described in this document may have changed since this document was published and may differ in case of multiple devices. The latest product status information is available on the Internet at URL <a href="http://www.nxp.com">http://www.nxp.com</a>.

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#### 12. Contact information

For more information, please visit: http://www.nxp.com

For sales office addresses, please send an email to: salesaddresses@nxp.com

# **PDTA113E series**

PNP resistor-equipped transistors; R1 = 1 k $\Omega$ , R2 = 1 k $\Omega$ 

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