

Voltage regulator series Rev. 01 — 31 October 2006

**Product data sheet** 

### 1. Product profile

#### 1.1 General description

Integrated Zener diode and NPN bipolar transistor in one package.

#### Table 1. Product overview

Type number	Package		SOT223 complement
	NXP	JEITA	
PVR100AD-B2V5	SOT457	SC-74	PVR100AZ-B2V5
PVR100AD-B3V0			PVR100AZ-B3V0
PVR100AD-B3V3			PVR100AZ-B3V3
PVR100AD-B5V0			PVR100AZ-B5V0
PVR100AD-B12V			PVR100AZ-B12V

#### **1.2 Features**

- Integrated Zener diode and bipolar transistor
- Output voltage options: 2.5 V, 3 V, 3.3 V, 5 V and 12 V
- Output power dissipation capability: 380 mW
- Small Surface-Mounted Device (SMD) plastic package

#### **1.3 Applications**

Linear voltage regulation

#### 1.4 Quick reference data

#### Table 2. Quick reference data

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
NPN trai	nsistor					
$V_{CEO}$	collector-emitter voltage	open base	-	-	45	V
I <sub>C</sub>	collector current		-	-	0.1	А
h <sub>FE</sub>	DC current gain	$V_{CE} = 1 \text{ V}; I_{C} = 100 \text{ mA}$	160	-	400	



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Symbol	Parameter	Conditions		Min	Тур	Мах	Unit
Zener di	ode						
Vz	working voltage	$I_Z = 5 \text{ mA}$					
	PVR100AD-B2V5			3.23	3.3	3.37	V
	PVR100AD-B3V0			3.53	3.6	3.67	V
	PVR100AD-B3V3			3.82	3.9	3.98	V
	PVR100AD-B5V0			5.49	5.6	5.71	V
	PVR100AD-B12V			12.7	13	13.3	V
Voltage	regulator						
Vo	output voltage	I <sub>O</sub> = 10 mA	[1]				
	PVR100AD-B2V5	$V_{I} = 4.5 \text{ V}; I_{ctrl} = 3.5 \text{ mA}$		2.25	2.5	2.75	V
	PVR100AD-B3V0	$V_{I} = 5 \text{ V}; I_{ctrl} = 6.5 \text{ mA}$		2.7	3	3.3	V
	PVR100AD-B3V3	$V_{I} = 5.3 \text{ V}; I_{ctrl} = 6.5 \text{ mA}$		3.07	3.3	3.53	V
	PVR100AD-B5V0	$V_{I} = 7 V; I_{ctrl} = 10 mA$		4.65	5	5.35	V
	PVR100AD-B12V	$V_{I} = 14 V; I_{ctrl} = 5 mA$		11.4	12.3	13.2	V
Line reg	ulation						
$\Delta V_0/V_0$	relative output voltage variation	I <sub>O</sub> = 10 mA	<u>[1]</u>				
	PVR100AD-B2V5	4.5 V $\leq$ V <sub>I</sub> $\leq$ 40 V; I <sub>ctrl</sub> = 3.5 mA		-10	-	+10	%
	PVR100AD-B3V0	5 V $\leq$ V <sub>I</sub> $\leq$ 40 V; I <sub>ctrl</sub> = 6.5 mA		-10	-	+10	%
	PVR100AD-B3V3	5.3 V $\leq$ V $_{I}$ $\leq$ 40 V; I $_{ctrI}$ = 6.5 mA		-7	-	+7	%
	PVR100AD-B5V0	7 V $\leq$ V <sub>I</sub> $\leq$ 40 V; I <sub>ctrl</sub> = 10 mA		-7	-	+7	%
	PVR100AD-B12V	14 V $\leq$ V <sub>I</sub> $\leq$ 40 V; I <sub>ctrl</sub> = 5 mA		-7	-	+7	%
Load reg	gulation						
$\Delta V_0/V_0$	relative output voltage variation	$5 \text{ mA} \leq I_O \leq 100 \text{ mA}$	<u>[1]</u>				
	PVR100AD-B2V5	$V_{I} = 4.5 V; I_{ctrl} = 3.5 mA$		-10	-	+10	%
	PVR100AD-B3V0	$V_{I} = 5 V; I_{ctrl} = 6.5 mA$		-10	-	+10	%
	PVR100AD-B3V3	$V_{I} = 5.3 \text{ V}; I_{ctrl} = 6.5 \text{ mA}$		-7	-	+7	%
	PVR100AD-B5V0	V <sub>I</sub> = 7 V; I <sub>ctrl</sub> = 10 mA		-7	-	+7	%
	PVR100AD-B12V	$V_{I} = 14 \text{ V}; I_{ctrl} = 5 \text{ mA}$		-7	-	+7	%

[1] Pulse test:  $t_p \le 300 \ \mu s; \ \delta \le 0.02$ .

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## 2. Pinning information

Table	3. Pinning	g		
Pin	Symbol	Description	Simplified outline	Symbol
1	GND	ground		
2	n.c.	not connected		
3	VO	output voltage	0	
4	VI	input voltage		
5	VI	input voltage		本 D1
6	REXT	base		1 2 3 <i>006aaa694</i>

## 3. Ordering information

Table 4.         Ordering information								
Type number	Package							
	Name	Description	Version					
PVR100AD-B2V5	SC-74	plastic surface-mounted package (TSOP6); 6 lead	SOT457					
PVR100AD-B3V0								
PVR100AD-B3V3								
PVR100AD-B5V0								
PVR100AD-B12V								

### 4. Marking

Table 5.   Marking codes	
Type number	Marking code
PVR100AD-B2V5	T1
PVR100AD-B3V0	T2
PVR100AD-B3V3	Т3
PVR100AD-B5V0	Τ4
PVR100AD-B12V	T5

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### 5. Limiting values

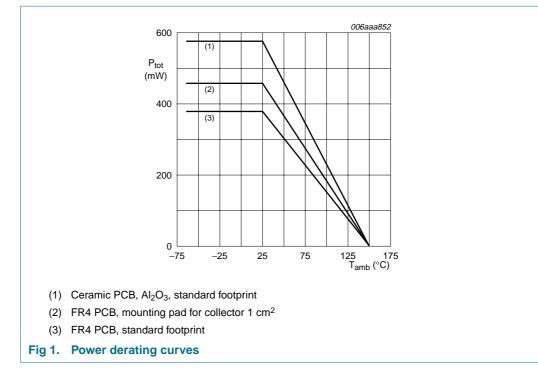
Symbol	Parameter	Conditions	Min	Max	Unit
NPN trar	sistor				
V <sub>CBO</sub>	collector-base voltage	open emitter	-	50	V
V <sub>CEO</sub>	collector-emitter voltage	open base	-	45	V
V <sub>EBO</sub>	emitter-base voltage	open collector	-	5	V
I <sub>C</sub>	collector current		-	0.1	А
I <sub>CM</sub>	peak collector current	single pulse; t <sub>p</sub> ≤ 1 ms	-	0.2	A
I <sub>BM</sub>	peak base current	single pulse; t <sub>p</sub> ≤ 1 ms	-	0.2	A
P <sub>tot</sub>	total power dissipation	$T_{amb} \le 25 \ ^{\circ}C$	<u>[1]</u> _	300	mW
			[2] _	380	mW
			[3] _	480	mW
Zener di	ode				
l <sub>F</sub>	forward current		-	200	mA
I <sub>ZSM</sub>	non-repetitive peak reverse	V <sub>Z</sub> < 6 V	-	6	А
	current	V <sub>Z</sub> = 13 V	-	2.5	А
P <sub>tot</sub>	total power dissipation	$T_{amb} \le 25 \ ^{\circ}C$	<u>[1]</u> _	140	mW
Voltage I	egulator				
P <sub>tot</sub>	total power dissipation	$T_{amb} \le 25 \ ^{\circ}C$	<u>[1]</u> _	380	mW
			[2] _	460	mW
			[3] _	580	mW
Tj	junction temperature		-	150	°C
T <sub>amb</sub>	ambient temperature		-65	+150	°C
T <sub>stg</sub>	storage temperature		-65	+150	°C

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

[2] Device mounted on an FR4 PCB, single-sided copper, tin-plated, mounting pad for collector 1 cm<sup>2</sup>.

[3] Device mounted on a ceramic PCB,  $Al_2O_3$ , standard footprint.

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### 6. Thermal characteristics

Table 7.	Thermal characteristics					
Symbol	Parameter	Conditions	Min	Тур	Max	Unit
NPN tran	sistor					
R <sub>th(j-a)</sub>	thermal resistance from	in free air	<u>[1]</u> _	-	417	K/W
	junction to ambient		[2] _	-	329	K/W
		[3] _	-	260	K/W	
R <sub>th(j-sp)</sub>	thermal resistance from junction to solder point		-	-	125	K/W
Zener die	ode					
R <sub>th(j-a)</sub>	thermal resistance from junction to ambient	in free air	<u>[1]</u> -	-	893	K/W
Voltage r	egulator					
R <sub>th(j-a)</sub>	thermal resistance from	in free air	<u>[1]</u> _	-	329	K/W
	junction to ambient		[2] _	-	272	K/W
			<u>[3]</u>	-	216	K/W

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

[2] Device mounted on an FR4 PCB, single-sided copper, tin-plated, mounting pad for collector 1 cm<sup>2</sup>.

[3] Device mounted on a ceramic PCB,  $AI_2O_3$ , standard footprint.

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### 7. Characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
NPN transist	or					
I <sub>CBO</sub>	collector-base cut-off	$V_{CB} = 20 \text{ V}; I_E = 0 \text{ A}$	-	-	100	nA
	current	V <sub>CB</sub> = 20 V; I <sub>E</sub> = 0 A; T <sub>j</sub> = 150 °C	-	-	5	μΑ
I <sub>EBO</sub>	emitter-base cut-off current	$V_{EB} = 5 \text{ V}; \text{ I}_{C} = 0 \text{ A}$	-	-	100	nA
h <sub>FE</sub>	DC current gain	$V_{CE} = 1 V;$ $I_{C} = 100 \text{ mA}$	160	-	400	
V <sub>BE</sub>	base-emitter voltage	$V_{CE} = 1 V;$ $I_{C} = 10 mA$	-	0.72	-	V
Zener diode						
V <sub>F</sub>	forward voltage	I <sub>F</sub> = 10 mA	-	-	0.9	V
I <sub>R</sub>	reverse current					
	PVR100AD-B2V5	$V_R = 1 V$	-	-	5	μΑ
	PVR100AD-B3V0	$V_R = 1 V$	-	-	5	μΑ
	PVR100AD-B3V3	$V_R = 1 V$	-	-	3	μΑ
	PVR100AD-B5V0	V <sub>R</sub> = 2 V	-	-	1	μΑ
	PVR100AD-B12V	V <sub>R</sub> = 8 V	-	-	0.1	μΑ
Vz	working voltage	$I_Z = 5 \text{ mA}$				
	PVR100AD-B2V5		3.23	3.3	3.37	V
	PVR100AD-B3V0		3.53	3.6	3.67	V
	PVR100AD-B3V3		3.82	3.9	3.98	V
	PVR100AD-B5V0		5.49	5.6	5.71	V
	PVR100AD-B12V		12.7	13	13.3	V
r <sub>dif</sub>	differential resistance	I <sub>Z</sub> = 1 mA				
	PVR100AD-B2V5		-	350	600	Ω
	PVR100AD-B3V0		-	375	600	Ω
	PVR100AD-B3V3		-	400	600	Ω
	PVR100AD-B5V0		-	80	400	Ω
	PVR100AD-B12V		-	50	170	Ω
r <sub>dif</sub>	differential resistance	l <sub>Z</sub> = 5 mA				
	PVR100AD-B2V5		-	85	95	Ω
	PVR100AD-B3V0		-	85	90	Ω
	PVR100AD-B3V3		-	85	90	Ω
	PVR100AD-B5V0		-	15	40	Ω
	PVR100AD-B12V		-	10	30	Ω

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Symbol	Parameter	Conditions	Min	Тур	Max	Unit
Sz	temperature coefficient	l <sub>Z</sub> = 5 mA				
	PVR100AD-B2V5		-3.5	-2.4	0	mV/K
	PVR100AD-B3V0		-3.5	-2.4	0	mV/K
	PVR100AD-B3V3		-3.5	-2.5	0	mV/K
	PVR100AD-B5V0		-2	1.2	2.5	mV/K
	PVR100AD-B12V		7	9.4	11	mV/K
Voltage regulato	or					
Vo	output voltage	I <sub>O</sub> = 10 mA	<u>[1]</u>			
	PVR100AD-B2V5	V <sub>I</sub> = 4.5 V; I <sub>ctrl</sub> = 3.5 mA	2.25	2.5	2.75	V
	PVR100AD-B3V0	$V_{I} = 5 V;$ $I_{ctrl} = 6.5 mA$	2.7	3	3.3	V
	PVR100AD-B3V3	V <sub>I</sub> = 5.3 V; I <sub>ctrl</sub> = 6.5 mA	3.07	3.3	3.53	V
	PVR100AD-B5V0	V <sub>I</sub> = 7 V; I <sub>ctrl</sub> = 10 mA	4.65	5	5.35	V
	PVR100AD-B12V	$V_{I} = 14 V;$ $I_{ctrl} = 5 mA$	11.4	12.3	13.2	V
$\Delta V_O / (V_O \times \Delta T_{amb})$	relative output voltage variation over ambient temperature	I <sub>O</sub> = 100 mA; T <sub>amb</sub> = −55 °C to 150 °C	<u>[1]</u>			
	PVR100AD-B2V5	V <sub>I</sub> = 4.5 V	-	38	-	10 <sup>-6</sup> /k
	PVR100AD-B3V0	V <sub>I</sub> = 5 V	-	-78	-	10 <sup>-6</sup> /k
	PVR100AD-B3V3	V <sub>I</sub> = 5.3 V	-	-61	-	10 <sup>-6</sup> /k
	PVR100AD-B5V0	V <sub>I</sub> = 7 V	-	634	-	10 <sup>-6</sup> /k
	PVR100AD-B12V	V <sub>I</sub> = 14 V	-	892	-	10 <sup>-6</sup> /k
Line regulation						
ΔV <sub>O</sub> /V <sub>O</sub>	relative output voltage variation	l <sub>O</sub> = 10 mA	<u>[1]</u>			
	PVR100AD-B2V5	$\begin{array}{l} 4.5 \ \text{V} \leq \text{V}_{\text{I}} \leq 40 \ \text{V}; \\ \text{I}_{\text{ctrl}} = 3.5 \ \text{mA} \end{array}$	-10	-	+10	%
	PVR100AD-B3V0	$5 \text{ V} \le \text{V}_{\text{I}} \le 40 \text{ V};$ I <sub>ctrl</sub> = 6.5 mA	-10	-	+10	%
	PVR100AD-B3V3	5.3 V $\leq$ V <sub>I</sub> $\leq$ 40 V; I <sub>ctrl</sub> = 6.5 mA	-7	-	+7	%
	PVR100AD-B5V0	$7 \text{ V} \le \text{V}_{\text{I}} \le 40 \text{ V};$ I <sub>ctrl</sub> = 10 mA	-7	-	+7	%
	PVR100AD-B12V	$\begin{array}{l} 14 \hspace{0.1cm} V \leq V_{I} \leq 40 \hspace{0.1cm} V; \\ I_{ctrl} = 5 \hspace{0.1cm} mA \end{array}$	-7	-	+7	%

#### Table 8. Characteristics ...continued

PVR100AD-B\_SER\_1
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#### Table 8. Characteristics ...continued

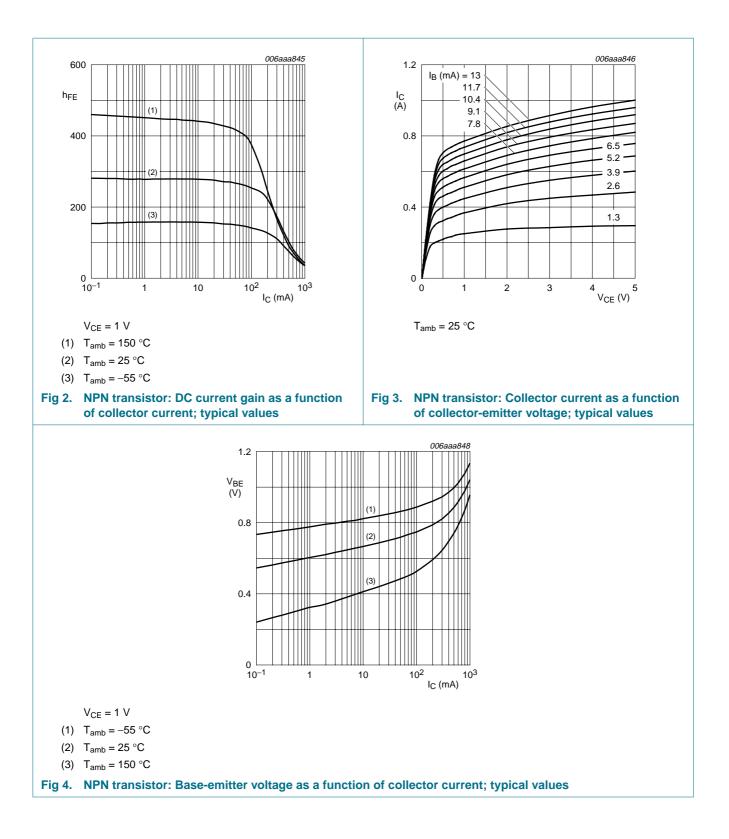
 $T_{amb} = 25 \circ C$  unless otherwise specified.

Symbol	Parameter	Conditions	ļ	Min	Тур	Max	Unit
$\Delta V_{O}/(V_{O} \times \Delta V_{I})$	relative output voltage variation over input voltage	l <sub>O</sub> = 10 mA	<u>[1]</u>				
	PVR100AD-B2V5	$\begin{array}{l} \text{4.5 V} \leq \text{V}_{\text{I}} \leq \text{40 V}; \\ \text{I}_{\text{ctrl}} = 3.5 \text{ mA} \end{array}$	-	-	100	-	10 <sup>-6</sup> /V
	PVR100AD-B3V0	$5 \text{ V} \leq \text{V}_{\text{I}} \leq 40 \text{ V};$ $\text{I}_{\text{ctrl}} = 6.5 \text{ mA}$	-	-	80	-	10 <sup>-6</sup> /V
	PVR100AD-B3V3	$\begin{array}{l} 5.3 \ \text{V} \leq \text{V}_{\text{I}} \leq 40 \ \text{V}; \\ \text{I}_{\text{ctrl}} = 6.5 \ \text{mA} \end{array}$	-	-	70	-	10 <sup>-6</sup> /V
	PVR100AD-B5V0	$7 \text{ V} \le \text{V}_{\text{I}} \le 40 \text{ V};$ $\text{I}_{\text{ctrl}} = 10 \text{ mA}$	-	-	40	-	10 <sup>-6</sup> /V
	PVR100AD-B12V	$\begin{array}{l} 14 \text{ V} \leq \text{V}_{\text{I}} \leq 40 \text{ V}; \\ \text{I}_{\text{ctrl}} = 5 \text{ mA} \end{array}$	-	-	20	-	10 <sup>-6</sup> /V
Load regulation	1						
$\Delta V_O/V_O$	relative output voltage variation	$5 \text{ mA} \le I_0 \le 100 \text{ mA}$	<u>[1]</u>				
	PVR100AD-B2V5	V <sub>I</sub> = 4.5 V; I <sub>ctrl</sub> = 3.5 mA	-	-10	-	+10	%
	PVR100AD-B3V0	V <sub>I</sub> = 5 V; I <sub>ctrl</sub> = 6.5 mA	-	-10	-	+10	%
	PVR100AD-B3V3	V <sub>I</sub> = 5.3 V; I <sub>ctrl</sub> = 6.5 mA	-	-7	-	+7	%
	PVR100AD-B5V0	V <sub>I</sub> = 7 V; I <sub>ctrl</sub> = 10 mA	-	-7	-	+7	%
	PVR100AD-B12V	$V_I = 14 V;$ $I_{ctrl} = 5 mA$	-	-7	-	+7	%
$\Delta V_{O}/(V_{O} \times \Delta I_{O})$	relative output voltage variation over output current	$5 \text{ mA} \le I_0 \le 100 \text{ mA}$	[1]				
	PVR100AD-B2V5	V <sub>I</sub> = 4.5 V; I <sub>ctrl</sub> = 3.5 mA	-	-	-840	-	10 <sup>–6</sup> /mA
	PVR100AD-B3V0	V <sub>I</sub> = 5 V; I <sub>ctrl</sub> = 6.5 mA	-	-	-630	-	10 <sup>-6</sup> /mA
	PVR100AD-B3V3	V <sub>I</sub> = 5.3 V; I <sub>ctrl</sub> = 6.5 mA	-	-	-540	-	10 <sup>-6</sup> /mA
	PVR100AD-B5V0	$V_I = 7 V;$ $I_{ctrl} = 10 mA$	-	-	-320	-	10 <sup>-6</sup> /mA
	PVR100AD-B12V	V <sub>I</sub> = 14 V; I <sub>ctrl</sub> = 5 mA	-	-	-130	-	10 <sup>–6</sup> /mA

[1] Pulse test:  $t_p \le 300 \ \mu s; \ \delta \le 0.02$ .

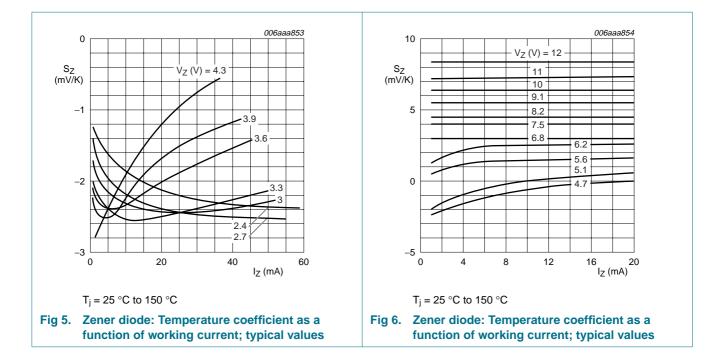
## **PVR100AD-B series**

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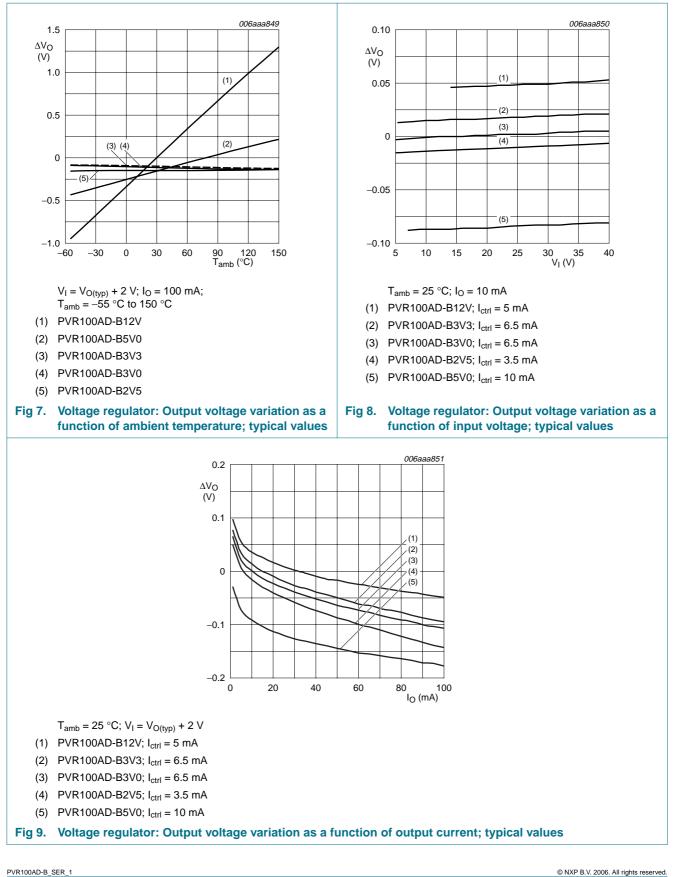
# **PVR100AD-B series**

Voltage regulator series



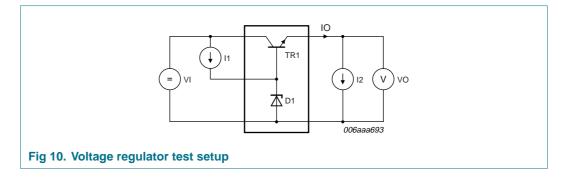
## **PVR100AD-B series**

Voltage regulator series

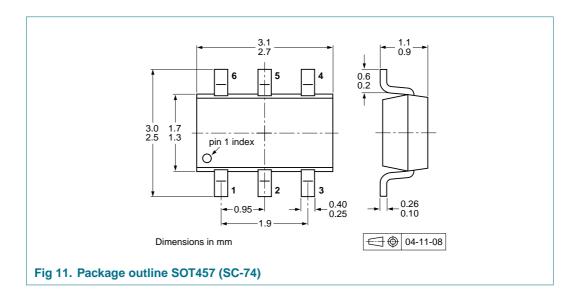


Voltage regulator series

### 8. Test information



## 9. Package outline



### **10. Packing information**

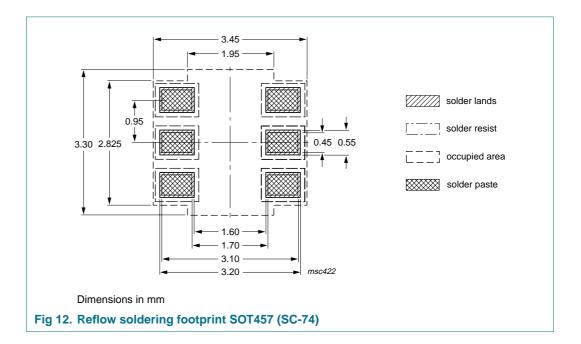
Type number	Package	Description		Packing	ı quantity
				3000	10000
VR100AD-B2V5 SOT457	SOT457	4 mm pitch, 8 mm tape and reel; T1	[2]	-115	-135
		4 mm pitch, 8 mm tape and reel; T2	[3]	-125	-165
VR100AD-B3V0	SOT457	4 mm pitch, 8 mm tape and reel; T1	[2]	-115	-135
		4 mm pitch, 8 mm tape and reel; T2	[3]	-125	-165
VR100AD-B3V3	SOT457	4 mm pitch, 8 mm tape and reel; T1	[2]	-115	-135
		4 mm pitch, 8 mm tape and reel; T2	[3]	-125	-165
VR100AD-B5V0	SOT457	4 mm pitch, 8 mm tape and reel; T1	[2]	-115	-135
		4 mm pitch, 8 mm tape and reel; T2	[3]	-125	-165
VR100AD-B12V	SOT457	4 mm pitch, 8 mm tape and reel; T1	[2]	-115	-135
		4 mm pitch, 8 mm tape and reel; T2	[3]	-125	-165

[1] For further information and the availability of packing methods, see Section 14.

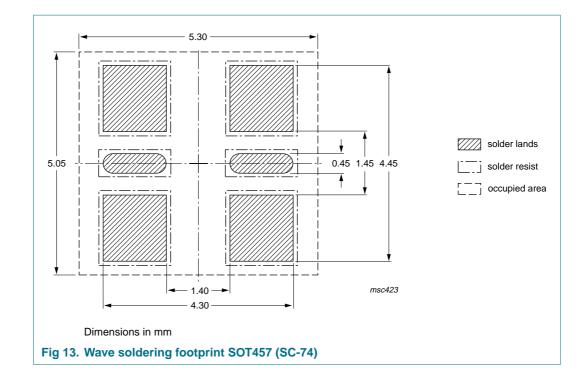
[2] T1: normal taping

[3] T2: reverse taping

## 11. Soldering



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## **12. Revision history**

Table 10. Revision history					
Document ID	Release date	Data sheet status	Change notice	Supersedes	
PVR100AD-B_SER_1	20061031	Product data sheet	-	-	

### **13. Legal information**

#### 13.1 Data sheet status

Document status[1][2]	Product status <sup>[3]</sup>	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 http://www.nxp.com.

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## **PVR100AD-B series**

Voltage regulator series

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