ne<mark>x</mark>peria

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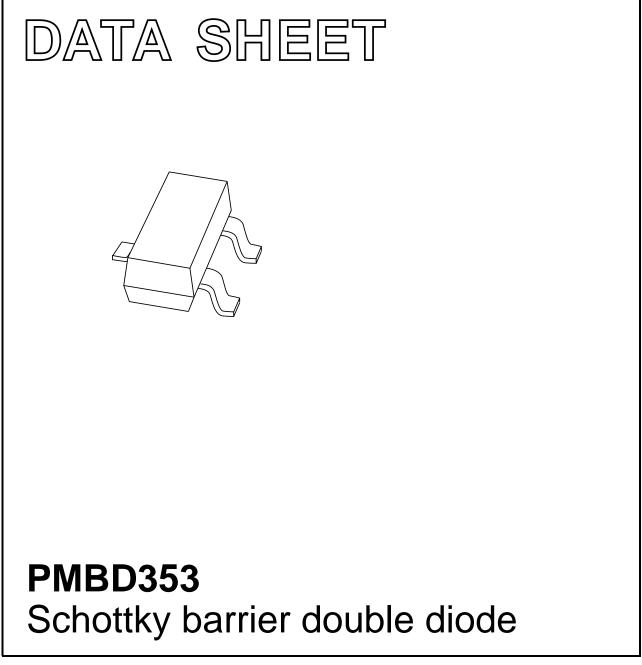
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Kind regards,

Team Nexperia

DISCRETE SEMICONDUCTORS



Product data sheet Supersedes data of 1999 May 25 2001 Oct 15



FEATURES

- Low forward voltage
- Small SMD package
- Low capacitance.

APPLICATIONS

- UHF mixer
- · Sampling circuits
- Modulators
- Phase detection.

LIMITING VALUES

DESCRIPTION

Planar Schottky barrier double diode in a SOT23 small plastic SMD package.

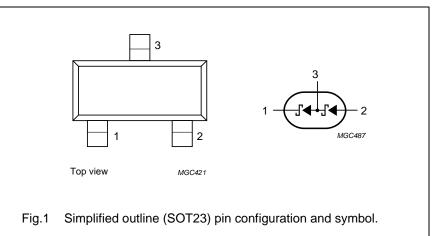
MARKING

TYPE NUMBER	MARKING CODE ⁽¹⁾	
PMBD353	*4F	

Note

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

- 1. * = p: Made in Hong Kong.
 - * = t: Made in Malaysia.
 - * = W: Made in China.



PINNING

PIN

1

2

3

SYMBOL PARAMETER MIN. MAX. UNIT Per diode V V_R continuous reverse voltage 4 _ I_F continuous forward current 30 mΑ T_{stg} °C -65 +150 storage temperature °C Τi junction temperature _ 100

Product data sheet

PMBD353

DESCRIPTION

common connection a₁, k₂

cathode k1

anode a₂

PMBD353

ELECTRICAL CHARACTERISTICS

T_{amb} = 25 °C unless otherwise specified.

SYMBOL	PARAMETER	CONDITIONS	MAX.	UNIT		
Per diode						
V _F	forward voltage	see Fig.2				
		I _F = 0.1 mA	350	mV		
		I _F = 1 mA	450	mV		
		I _F = 10 mA	600	mV		
I _R	reverse current	$V_R = 3 V$; note 1; see Fig.3	0.25	μA		
C _d	diode capacitance	$f = 1 \text{ MHz}; V_R = 0; \text{ see Fig.4}$	1	pF		

Note

1. Pulse test: t_p = 300 $\mu s; \, \delta$ = 0.02.

THERMAL CHARACTERISTICS

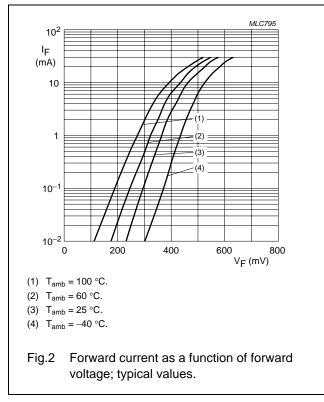
SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
R _{th j-a}	thermal resistance from junction to ambient	note 1	500	K/W

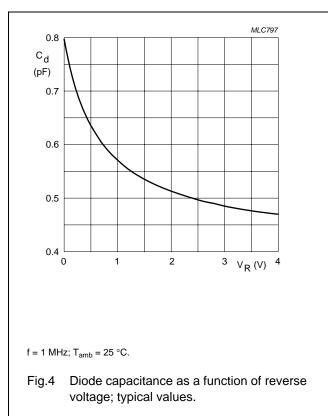
Note

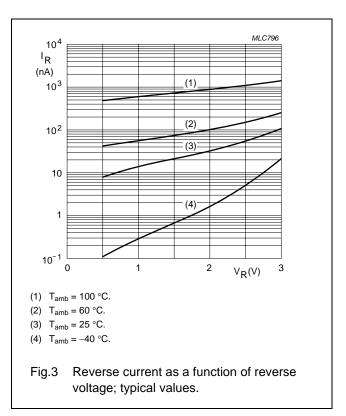
1. Refer to SOT23 standard mounting conditions.

PMBD353

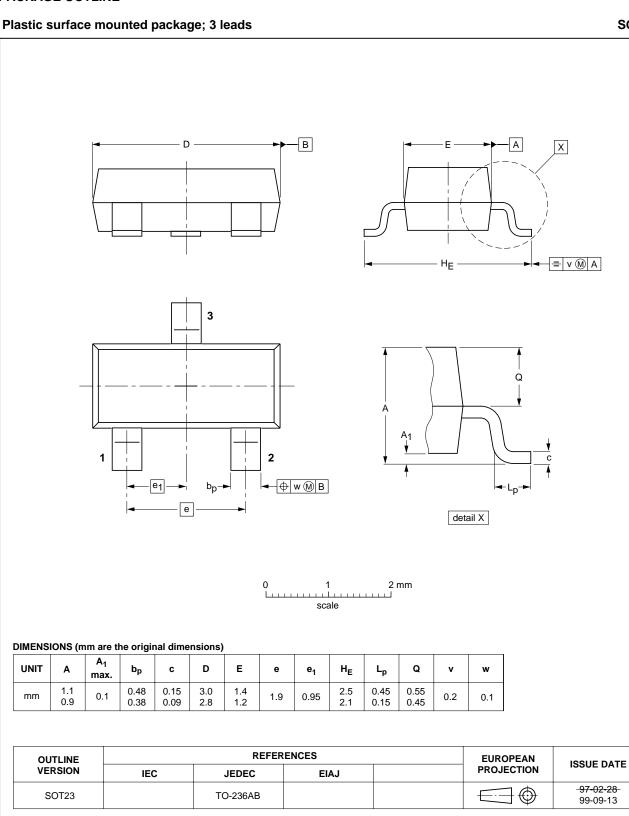
GRAPHICAL DATA







PACKAGE OUTLINE



PMBD353

SOT23

PMBD353

DATA SHEET STATUS

DOCUMENT STATUS ⁽¹⁾	PRODUCT STATUS ⁽²⁾	DEFINITION
Objective data sheet	Development	This document contains data from the objective specification for product development.
Preliminary data sheet	Qualification	This document contains data from the preliminary specification.
Product data sheet	Production	This document contains the product specification.

Notes

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NXP Semiconductors

Customer notification

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Contact information

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