ne<mark>x</mark>peria

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Should be replaced with:

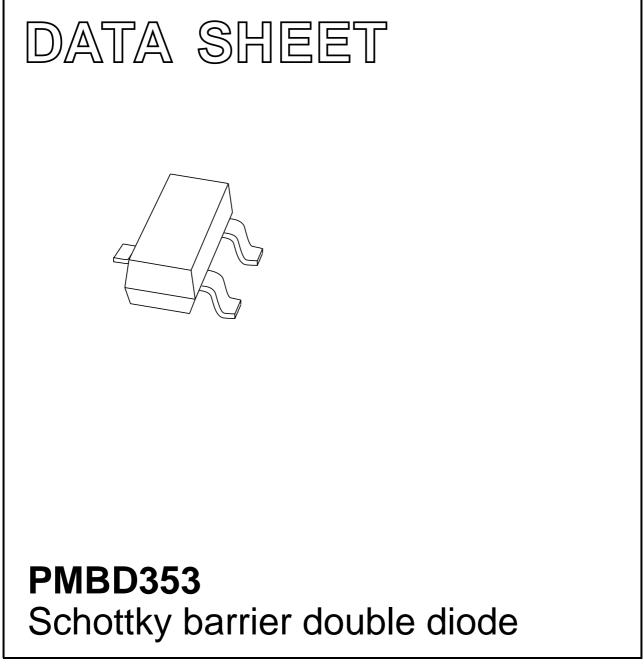
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Kind regards,

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

SYMBOL

Per diode

 V_R

 I_F

T_{stg}

Ti

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).

continuous reverse voltage

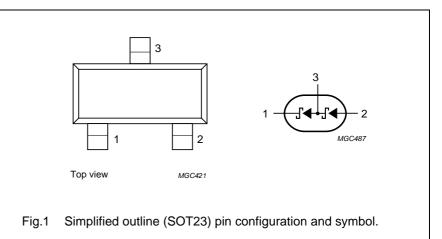
continuous forward current

storage temperature

junction temperature

PARAMETER

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



MIN.

_

_

-65

MAX.

4

30

+150

100

UNIT

V

mΑ

°C

°C

PINNING

PIN	DESCRIPTION	
1	cathode k ₁	
2	anode a ₂	
3	common connection a ₁ , k ₂	

PMBD353

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 µs; δ = 0.02.

THERMAL CHARACTERISTICS

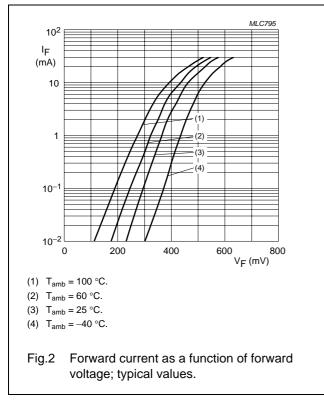
SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
R _{th j-a}	thermal resistance from junction to ambient	note 1	500	K/W

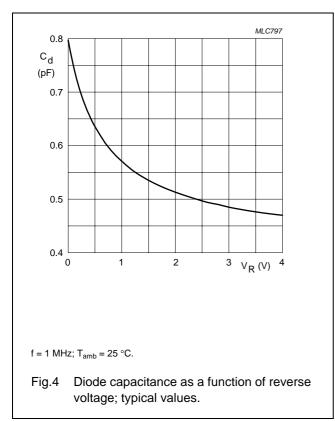
Note

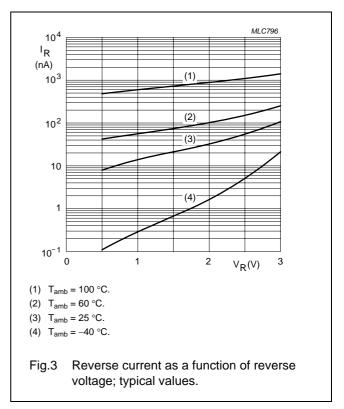
1. Refer to SOT23 standard mounting conditions.

PMBD353

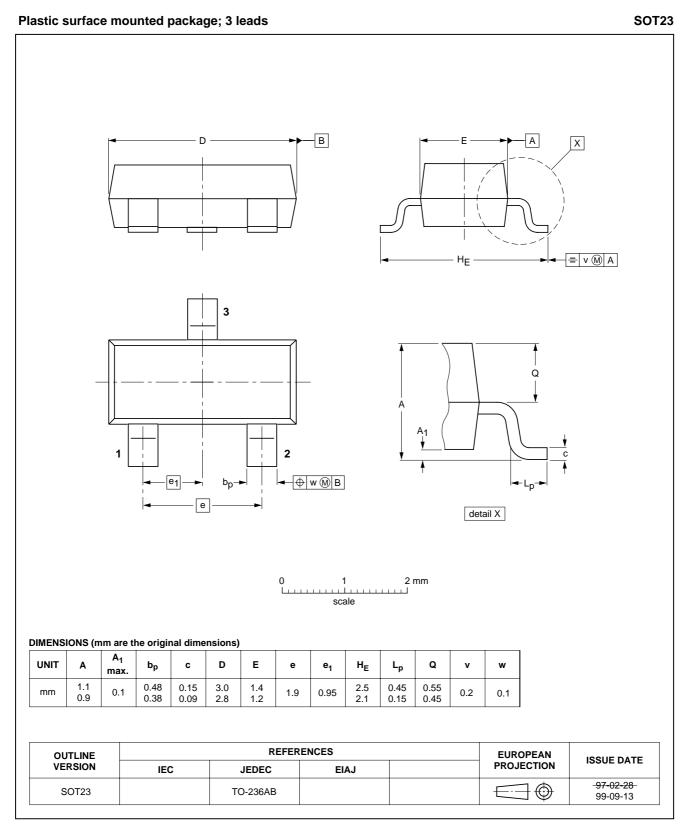
GRAPHICAL DATA







PACKAGE OUTLINE



PMBD353

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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