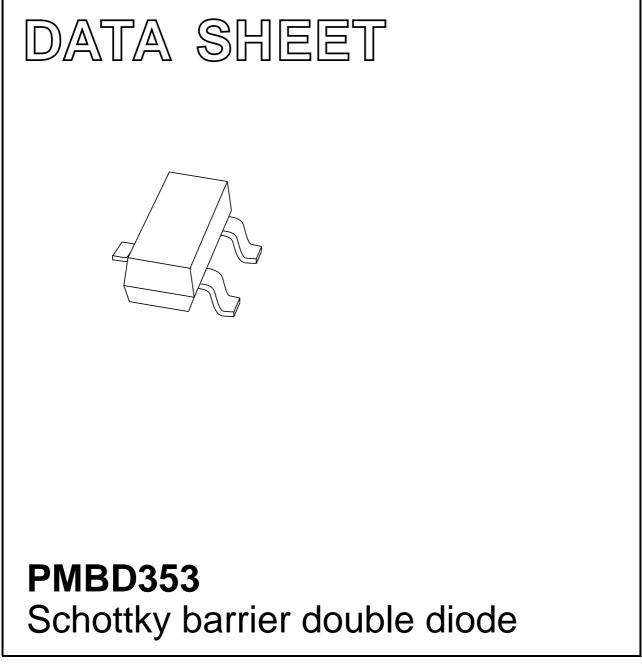
DISCRETE SEMICONDUCTORS



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.

DESCRIPTION

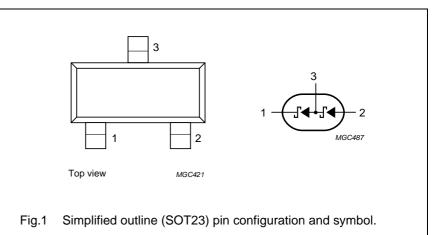
Planar Schottky barrier double diode in a SOT23 small plastic SMD package.

MARKING

TYPE NUMBER	MARKING CODE ⁽¹⁾	
PMBD353	*4F	

Note

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



PINNING

LIMITING VALUES

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

SYMBOL	PARAMETER	MIN.	MAX.	UNIT
Per diode				
V _R	continuous reverse voltage	-	4	V
l _F	continuous forward current – 3		30	mA
T _{stg}	storage temperature	-65	+150	°C
Tj	junction temperature – 100 °C		°C	

Product data sheet

PMBD353

PIN	DESCRIPTION	
1	cathode k1	
2	anode a ₂	
3	common connection a_1 , k_2	

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

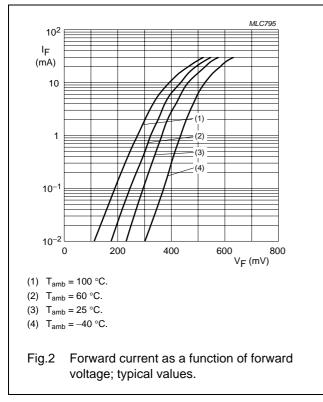
SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
R _{th j-a}	thermal resistance from junction to ambient	note 1	500	K/W

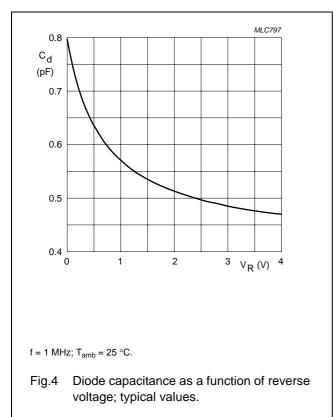
Note

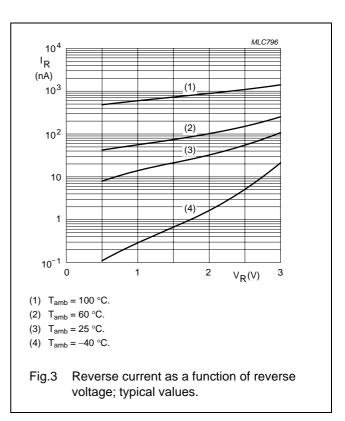
1. Refer to SOT23 standard mounting conditions.

PMBD353

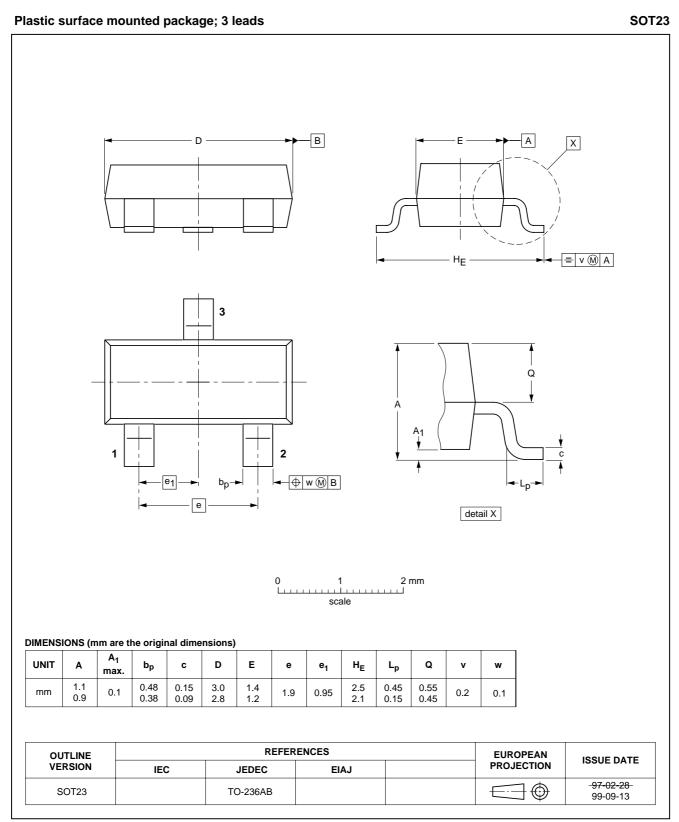
GRAPHICAL DATA







PACKAGE OUTLINE



PMBD353

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

- 1. Please consult the most recently issued document before initiating or completing a design.
- 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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