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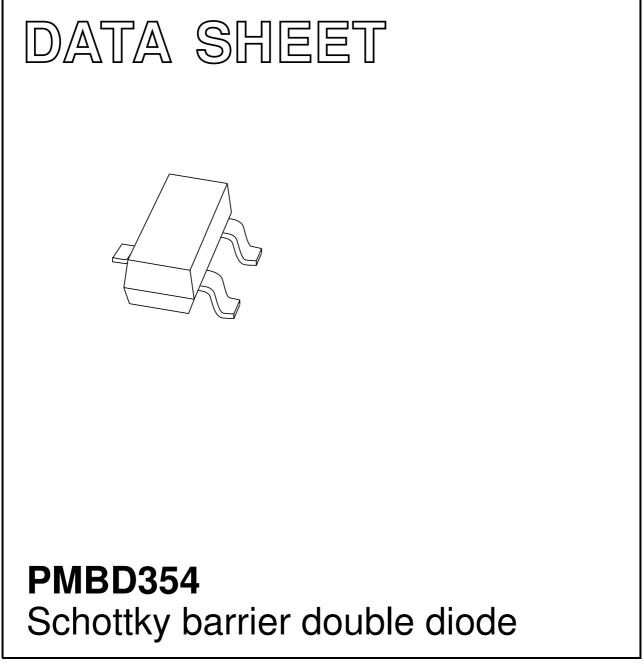
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Kind regards,

Team Nexperia

DISCRETE SEMICONDUCTORS



Product data sheet Supersedes data of 2002 Aug 06 2003 Mar 25



Product data sheet

Schottky barrier double diode

PMBD354

FEATURES

• Low forward voltage

- Small SMD package
- Low capacitance
- Matched 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⁾	
PMBD354	*V8	

Note

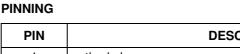
- 1. * = p : Made in Hong Kong.
 - * = t : Made in Malaysia.

* = W : Made in China.

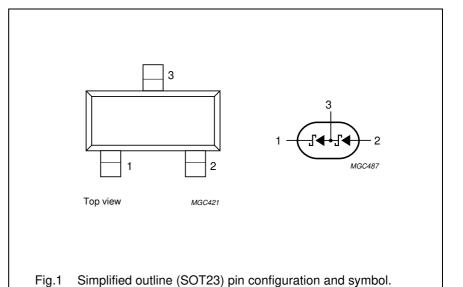
LIMITING VALUES

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

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



PIN	DESCRIPTION	
1	cathode k ₁	
2	anode a ₂	
3	common connection a1, k2	



PMBD354

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	$f = 1 MHz; V_R = 0; see Fig.4$	1	pF
ΔC_d	capacitance matching	$f = 1 MHz; V_R = 0$	0.1	pF

Note

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

THERMAL CHARACTERISTICS

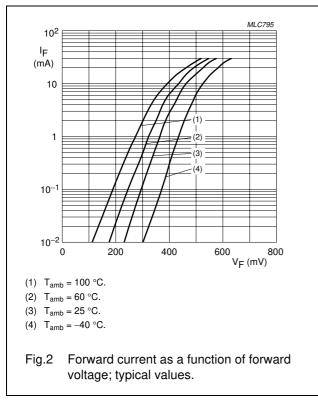
SYMBOL	PARAMETER	CONDITIONS VAL		UNIT
R _{th j-a}	thermal resistance from junction to ambient	note 1	500	K/W

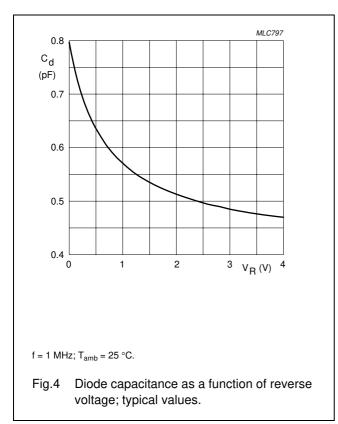
Note

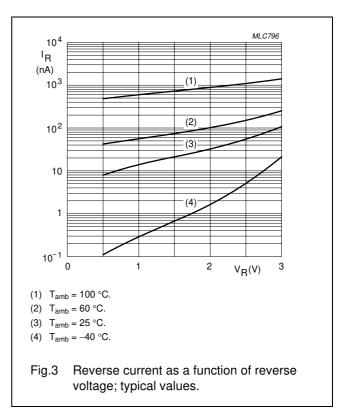
1. Refer to SOT23 standard mounting conditions.

PMBD354

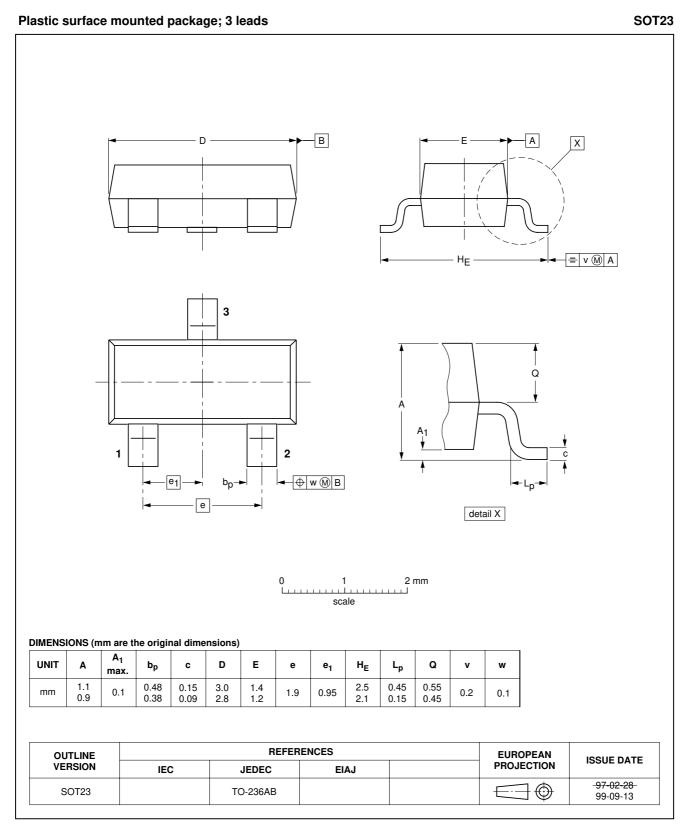
GRAPHICAL DATA







PACKAGE OUTLINE



PMBD354

PMBD354

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.

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NXP Semiconductors

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This data sheet was changed to reflect the new company name NXP Semiconductors. No changes were made to the content, except for the legal definitions and disclaimers.

Contact information

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