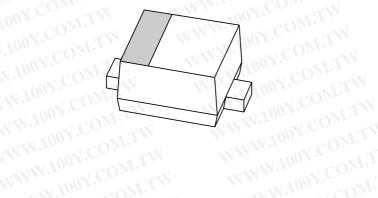
DISCRETE SEMICONDUCTORS

DATA SHEET

勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-54151736 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

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BA892 Band-switching diode

Preliminary specification

File under Discrete Semiconductors, SC01

1998 May 08





Band-switching diode

BA892

FEATURES

- Small plastic SMD package
- Low diode capacitance
- WW.100Y.COM.TW · Low diode forward resistance
- Small inductance.

APPLICATIONS

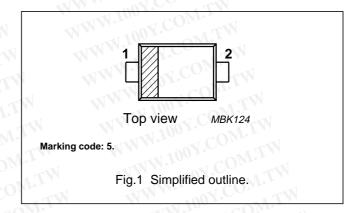
- Low loss band-switching in VHF television tuners
- Surface mount band-switching circuits.

DESCRIPTION

Planar, high performance band-switch diode in a small SMD plastic package (SOD523).

PINNING SOD523

PÎN	DESCRIPTION	
100	cathode	
2,007.	anode	



LIMITING VALUES

SYMBOL	PARAMETER	CONDITIONS.	MIN.	MAX.	UNIT
V _R	continuous reverse voltage	M. COM TW	7	35	V
l _F	continuous forward current	MM. TOO COMP.	AM.	100	mA
P _{tot}	total power dissipation	T _S = 90 °C	-WW	715	mW
T _{stg}	storage temperature	OW.14	-65	+150	°C
Ti W	junction temperature	My 1100x.	-65	+150	°C

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Band-switching diode

BA892

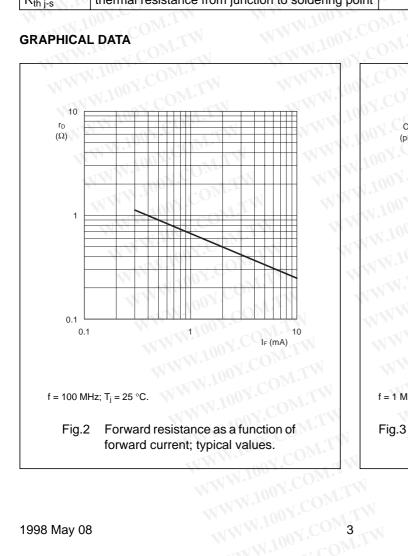
SYMBOL	PARAMETER	CONDITIONS	MIN.	TYP.	MAX.	UNIT
V _F	forward voltage	I _F = 10 mA	$G_{\overline{D}_{2k}, k}$	TAN	1	V
I_{R}	reverse current	V _R = 30 V	GOM.	TW	20	nA
C _d	diode capacitance	V _R = 1 V; f = 1 MHz; note 1	TON	0.92	1.4	pF
	IN MM. 100)	V _R = 3 V; f = 1 MHz; note 1	0.6	0.85	1.1	pF
r_D	diode forward resistance	I _F = 3 mA; f = 100 MHz; note 1	07.0	0.45	0.7	Ω
	TW WWW.	I _F = 10 mA; f = 100 MHz; note 1	OGY.C.	0.36	0.5	Ω
L _S	series inductance	CONTRACTOR WINN.	-01.C	0.6	r (A)	nH

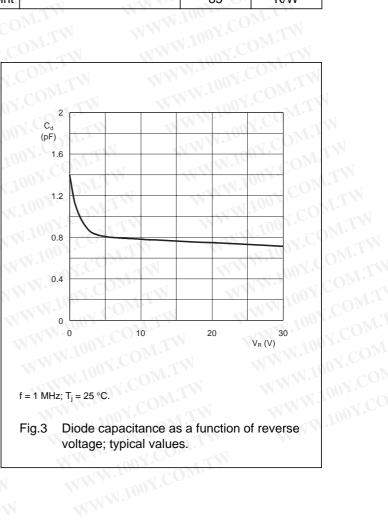
Note

THERMAL CHARACTERISTICS

1. Guarant	reed on AQL basis: inspection level S4, AQL 1.0.			
THERMAL (CHARACTERISTICS PARAMETER	CONDITIONS	VALUE	UNIT
R _{th j-s}	thermal resistance from junction to soldering point		85	K/W

GRAPHICAL DATA





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Philips Semiconductors Preliminary specification

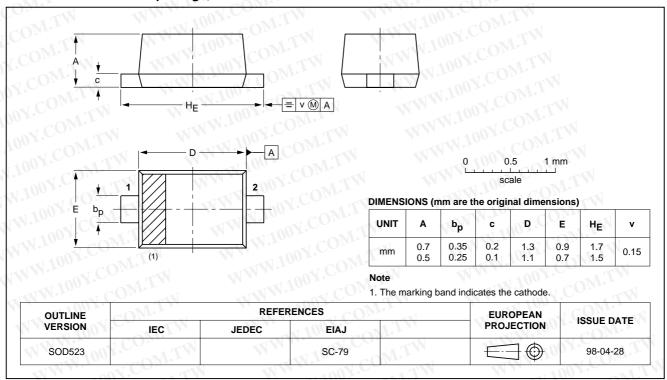
Band-switching diode

BA892

PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD523



DEFINITIONS

Data sheet status	
Objective specification	This data sheet contains target or goal specifications for product development.
Preliminary specification	This data sheet contains preliminary data; supplementary data may be published later.
Product specification	This data sheet contains final product specifications.
Limiting values	ON COM. TW WWW.IOOY.COM.
more of the limiting values of the device at these or at	n accordance with the Absolute Maximum Rating System (IEC 134). Stress above one or may cause permanent damage to the device. These are stress ratings only and operation any other conditions above those given in the Characteristics sections of the specification limiting values for extended periods may affect device reliability.
Application information	W.1007. COW.I.A. WWW.100 COW.I.
Where application informat	ion is given, it is advisory and does not form part of the specification.

LIFE SUPPORT APPLICATIONS

These products are not designed for use in life support appliances, devices, or systems where malfunction of these products can reasonably be expected to result in personal injury. Philips customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Philips for any damages resulting from such improper use or sale.

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