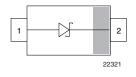


Vishay Semiconductors

Small Signal Schottky Diode





MECHANICAL DATA

Case: SOD-523

Weight: approx. 1.4 mg

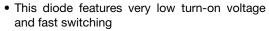
Molding compound flammability rating: UL 94 V-0 **Terminals:** high temperature soldering guaranteed:

260 °C/10 s at terminals

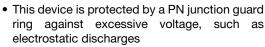
Packaging codes/options:

08/3K per 7" reel (8 mm tape), 15K/box

FEATURES









• Space saving SOD-523 package

www.vishay.com/doc?99912

Material categorization:
 For definitions of compliance please see

ROHS COMPLIANT GREEN (5-2008)

PARTS TABLE						
PART	ORDERING CODE	INTERNAL CONSTRUCTION	TYPE MARKING	REMARKS		
BAS40-02V-V-G	BAS40-02V-V-G-08	Single diode	W	Tane and reel		

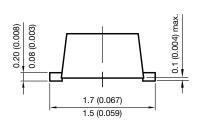
ABSOLUTE MAXIMUM RATINGS (T _{amb} = 25 °C, unless otherwise specified)					
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT	
Repetitive peak reverse voltage		V_{RRM}	40	V	
Forward continuous current		I _F	120	mA	
Surge forward current		I _{FSM}	600	mA	
Power dissipation		Pt _{ot}	150	mW	

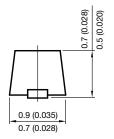
THERMAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)					
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT	
Thermal resistance junction to ambient air		R _{thJA}	680	K/W	
Junction temperature		Tj	125	°C	
Storage temperature range		T _{stg}	- 55 to + 150	°C	

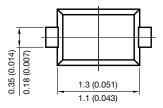
ELECTRICAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)						
PARAMETER	TEST CONDITION	SYMBOL	MIN.	TYP.	MAX.	UNIT
Reverse breakdown voltage	I _R = 10 μA (pulsed)	V _(BR)	40			V
Leakage current	Pulse test $V_R = 30 \text{ V}, t_p < 300 \mu\text{s}$	I _R		20	100	nA
Forward voltage	Pulse test t _p < 300 μs, I _F = 1 mA	V _F			380	mV
	Pulse test t _p < 300 μs, I _F = 40 mA	V _F			1000	mV
Diode capacitance	V _R = 0 V, f = 1 MHz	C _D		4	5	pF
Reverse recovery time	$I_F = 10 \text{ mA}, I_R = 10 \text{ mA}, I_{rr} = 1 \text{ mA}, R_L = 100 \Omega$	t _{rr}			5	ns

Vishay Semiconductors

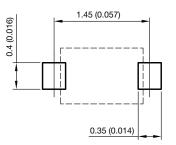
PACKAGE DIMENSIONS in millimeters (inches): SOD-523







foot print recommendation:



Document no.: S8-V-3880.02-001 (4)

Rev. h - Date: 13. Oct. 2010

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Vishay

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Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.

Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as Halogen-Free follow Halogen-Free requirements as per JEDEC JS709A standards. Please note that some Vishay documentation may still make reference to the IEC 61249-2-21 definition. We confirm that all the products identified as being compliant to IEC 61249-2-21 conform to JEDEC JS709A standards.

Revision: 02-Oct-12 Document Number: 91000



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001:
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



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