

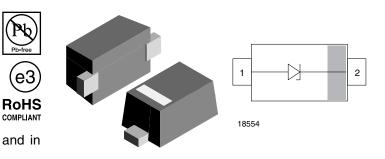
Vishay Semiconductors



Small Signal Schottky Diode

Features

- This diode features very low turn-on voltage and fast switching.
- This device is protected by a PN junction guard ring against excessive voltage, such as electrostatic discharges.
- Space saving SOD-523 package
- Compliant to RoHS directive 2002/95/EC and in accordance to WEEE 2002/96/EC



Mechanical Data

Case: SOD-523

Molding Compound Flammability Rating:

UL 94 V-0

Terminals: High temperature soldering guaranteed: 260 °C/10 s at terminals

Weight: approx. 1.6 mg

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Packaging Codes/Options:

GS18 / 10 k per 13" reel (8 mm tape), 10 k/box GS08 / 3 k per 7" reel (8 mm tape), 15 k/box

Parts Table

Part	Ordering code	Marking	Remarks	
BAS70-02V	BAS70-02V-GS18 or BAS70-02V-GS08	Х	Tape and Reel	

Absolute Maximum Ratings

 $T_{amb} = 25 \ ^{\circ}C$, unless otherwise specified

Parameter	Test condition	Symbol	Value	Unit
Repetitive peak reverse voltage		V _{RRM}	70	V
Forward continuous current		١ _F	200	mA
Surge forward current	t _p < 1 s	I _{FSM}	600	mA
Power dissipation		P _{tot}	200	mW

Thermal Characteristics

$T_{amb} = 25 \ ^{\circ}C$, unless otherwise specified

Parameter	Test condition	Symbol	Value	Unit	
Junction soldering point		R _{thJS}	100	K/W	
Junction temperature		Tj	125	°C	
Storage temperature range		T _{stg}	- 55 to +150	°C	

Document Number 85652For technical questions within your region, please contact one of the following:Rev. 1.4, 05-Aug-10DiodesAmericas@vishay.com, DiodesAsia@vishay.com, DiodesAsia@vishay.com

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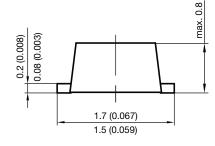


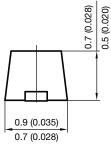
Electrical Characteristics

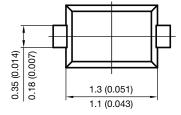
T_{amb} = 25 °C, unless otherwise specified

Parameter	Test condition	Symbol	Min	Тур.	Max	Unit
Reverse breakdown voltage	$I_R = 10 \ \mu A \ (pulsed)$	V _{(BR)R}	70			V
Leakage current	$V_{\rm R} = 50$ V, $t_{\rm p} < 300 \ \mu s$	I _R		20	100	nA
Forward voltage	t _p < 300 μs, I _F = 1.0 mA	V _F			410	mV
	t _p < 300 μs, I _F = 15 mA	V _F			1000	mV
Diode capacitance	V _R = 0 V, f = 1 MHz	CD		1.5	2	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

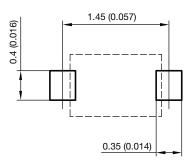
Package Dimensions in millimeters (inches): SOD-523







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