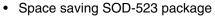


Vishay Semiconductors

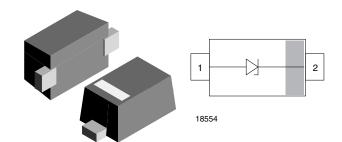
Small Signal Schottky Diode

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.



 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

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 °C, unless otherwise specified

amb 1					
Parameter	Test condition	Symbol	Value	Unit	
Repetitive peak reverse voltage		V _{RRM}	70	V	
Forward continuous current		I _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 °C, unless otherwise specified

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

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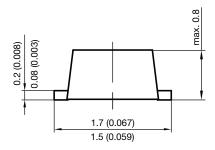


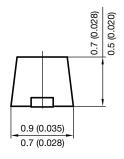
Electrical Characteristics

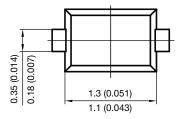
T_{amb} = 25 °C, unless otherwise specified

Parameter	Test condition	Symbol	Min	Тур.	Max	Unit
Reverse breakdown voltage	$I_R = 10 \mu A \text{ (pulsed)}$	V _{(BR)R}	70			V
Leakage current	$V_R = 50 \text{ V}, t_p < 300 \mu\text{s}$	I _R		20	100	nA
Forward voltage	t_p < 300 μ s, I_F = 1.0 mA	V _F			410	mV
	$t_p < 300 \ \mu s, \ I_F = 15 \ mA$	V_{F}			1000	mV
Diode capacitance	V _R = 0 V, f = 1 MHz	C _D		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

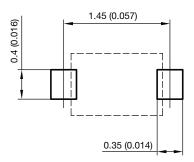
Package Dimensions in millimeters (inches): SOD-523







foot print recommendation:



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

Rev. g - Date: 13.April 2010

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