

Vishay Semiconductors

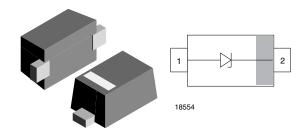
Small Signal Schottky Diode

Features

- This diode features very low turn-on voltage and fast switching.
- 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

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	
BAS581-02V	BAS581-02V-GS18 or BAS581-02V-GS08	Z	Tape and Reel	

Absolute Maximum Ratings

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

and				
Parameter	Test condition	Symbol	Value	Unit
Repetitive peak reverse voltage=Working peak reverse voltage		V _{RRM}	40	V
Forward continuous current		I _F	30	mA
Surge forward current		I _{FSM}	200	mA

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}	- 65 to + 150	°C

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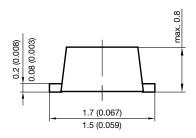


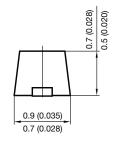
Electrical Characteristics

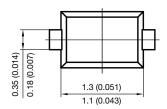
T_{amb} = 25 °C, unless otherwise specified

Parameter	Test condition	Symbol	Min	Тур.	Max	Unit
Reverse Breakdown voltage	$I_r = 100 \mu A$	V _(BR)	40			٧
Leakage current	V _R = 30 V	l _r			0.5	μΑ
Forward voltage	I _F = 1 mA	V _F			370	mV
Diode capacitance	$V_R = 1 V, f = 1 MHz$	C _D			2	pF

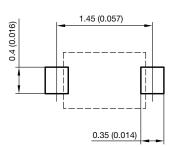
Package Dimensions in millimeters (inches): SOD-523







foot print recommendation:



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