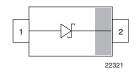


## Vishay Semiconductors

# **Small Signal Schottky Diode**





### **MECHANICAL DATA**

Case: SOD-523

Weight: approx. 1.4 mg

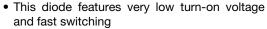
Molding compound flammability rating: UL 94 V-0 Terminals: high temperature soldering guaranteed:

260 °C/10 s at terminals

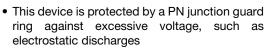
Packaging codes/options:

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

#### **FEATURES**









• Space saving SOD-523 package

Material categorization:

For definitions of compliance please see <a href="https://www.vishay.com/doc?99912">www.vishay.com/doc?99912</a>



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

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

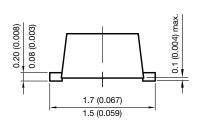
THERMAL CHARACTERISTICS (T <sub>amb</sub> = 25 °C, unless otherwise specified)					
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT	
Thermal resistance junction to ambient air		R <sub>thJA</sub>	680	K/W	
Junction temperature		Tj	125	°C	
Storage temperature range		T <sub>stg</sub>	- 55 to + 150	°C	

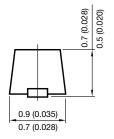
<b>ELECTRICAL CHARACTERISTICS</b> (T <sub>amb</sub> = 25 °C, unless otherwise specified)						
PARAMETER	TEST CONDITION	SYMBOL	MIN.	TYP.	MAX.	UNIT
Reverse breakdown voltage	I <sub>R</sub> = 10 μA (pulsed)	V <sub>(BR)</sub>	40			V
Leakage current	Pulse test $V_R = 30 \text{ V}$ , $t_p < 300 \mu\text{s}$	I <sub>R</sub>		20	100	nA
Forward voltage	Pulse test t <sub>p</sub> < 300 μs, I <sub>F</sub> = 1 mA	V <sub>F</sub>			380	mV
	Pulse test t <sub>p</sub> < 300 μs, I <sub>F</sub> = 40 mA	V <sub>F</sub>			1000	mV
Diode capacitance	V <sub>R</sub> = 0 V, f = 1 MHz	C <sub>D</sub>		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 <sub>rr</sub>			5	ns

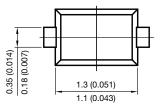


# Vishay Semiconductors

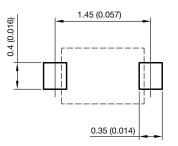
### PACKAGE DIMENSIONS in millimeters (inches): SOD-523







foot print recommendation:



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

Rev. h - Date: 13. Oct. 2010

16864





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