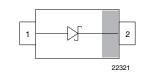
BAS581-02V-V-G

Vishay Semiconductors



Small Signal Schottky Diode





DESIGN SUPPORT TOOLS click logo to get started



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

PARTS TABLE					
PART	ORDERING CODE	CIRCUIT CONFIGURATION	TYPE MARKING	REMARKS	
BAS581-02V-V-G	BAS581-02V-V-G-08	Single	.Z	Tape and reel	

ABSOLUTE MAXIMUM RATINGS ($T_{amb} = 25 \degree C$, unless otherwise specified)					
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT	
Repetitive peak reserve voltage = working peak reserve 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		
Thermal resistance junction to ambient air		R _{thJA}	680	K/W		
Junction temperature		Tj	125	°C		
Storage temperature range		T _{stg}	-65 to +150	°C		

ELECTRICAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)						
PARAMETER	TEST CONDITION	SYMBOL	MIN.	TYP.	MAX.	UNIT
Reserve breakdown voltage	I _R = 100 μA	V _(BR)	40			V
Leakage current	V _R = 30 V	I _R			0.5	μA
Forward voltage	I _F = 1 mA	VF			370	mV
Diode capacitance	V _R = 1 V, f = 1 MHz	CD			2	pF

Rev. 1.2, 01-Jun-17

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Document Number: 82392

For technical questions within your region: <u>DiodesAmericas@vishay.com</u>, <u>DiodesAsia@vishay.com</u>, <u>DiodesEurope@vishay.com</u> THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE. THE PRODUCTS DESCRIBED HEREIN AND THIS DOCUMENT ARE SUBJECT TO SPECIFIC DISCLAIMERS, SET FORTH AT <u>www.vishay.com/doc?91000</u>

FEATURES

- This diode features very low turn-on voltage and fast switching
- Space saving SOD-523 package
- Material categorization: For definitions of compliance please see <u>www.vishay.com/doc?99912</u>





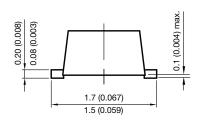
FREE

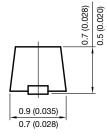
GREEN (5-2008)

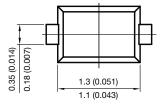


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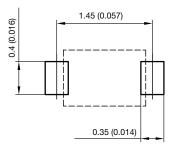
PACKAGE DIMENSIONS in millimeters (inches): SOD-523







foot print recommendation:



Document no.: S8-V-3880.02-001 (4) Rev. h - Date: 13. Oct. 2010 16864



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