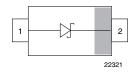


Vishay Semiconductors

Small Signal Schottky Diode





DESIGN SUPPORT TOOLS click logo to get started



MECHANICAL DATA

Case: SOD-523

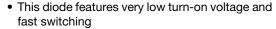
Weight: approx. 1.4 mg

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

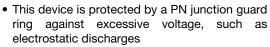
260 °C/10 s at terminals Packaging codes/options:

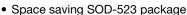
08/3K per 7" reel (8 mm tape), 15K/box

FEATURES









ROHS
COMPLIANT
HALOGEN
FREE
GREEN
(5-2008)

•	Mat	erial categor	izati	on:		
	for	definitions	of	compliance	please	see
	ww	w.vishav.com	n/do	c?99912		

PARTS TABLE							
PART	ORDERING CODE	CIRCUIT CONFIGURATION	TYPE MARKING	REMARKS			
BAS70-02V-V-G	BAS70-02V-V-G-08	Single	.X	Tape and reel			

ABSOLUTE MAXIMUM RATINGS (T _{amb} = 25 °C, unless otherwise specified)						
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT		
Repetitive peak reverse voltage		V _{RRM}	70	V		
Forward continuous current		I _F	100	mA		
Surge forward current		I _{FSM}	600	mA		
Power dissipation		P _{tot}	150	mW		

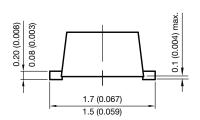
THERMAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)						
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT		
Thermal resistance junction to ambient air		R _{thJA}	680	K/W		
Junction temperature		T _j	125	°C		
Storage temperature range		T _{stg}	-65 to +150	°C		

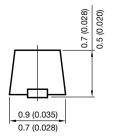
ELECTRICAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)						
PARAMETER	TEST CONDITION	SYMBOL	MIN.	TYP.	MAX.	UNIT
Reserve breakdown voltage	I _R = 10 μA (pulsed)	V _(BR)	70			V
Leakage current	$V_R = 50 \text{ V}, t_p < 300 \mu\text{s}$	I _R		20	100	nA
Forward voltage	$t_p < 300 \ \mu s, \ I_F = 1.0 \ mA$	V _F			410	mV
Torward voitage	$t_p < 300 \ \mu s, \ I_F = 15 \ mA$	V _F			1000	mV
Diode capacitance	V _R = 0 V, f = 1 MHz	C _D		1.5	2	pF
Reserve recovery time	$I_F = 10 \text{ mA}, I_R = 10 \text{ mA},$ $I_R = 1 \text{ mA}, R_L = 100 \Omega$	t _{rr}			5	ns

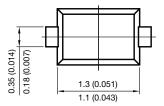


Vishay Semiconductors

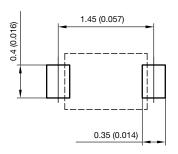
PACKAGE DIMENSIONS in millimeters (inches): SOD-523







foot print recommendation:



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

16864



Legal Disclaimer Notice

Vishay

Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.