

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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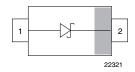




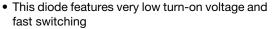
Vishay Semiconductors

Small Signal Schottky Diode

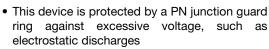




FEATURES









• Space saving SOD-523 package

RoHS **GREEN** (5-2008)

see

• Material categorization: For definitions of

compliance please www.vishay.com/doc?99912

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	INTERNAL CONSTRUCTION	TYPE MARKING	REMARKS	
BAS70-02V-V-G	BAS70-02V-V-G-08	Single diode	.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	

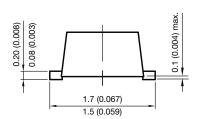
THERMAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)					
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT	
Thermal resistance junction to ambient air		R _{thJA}	680	K/W	
Junction temperature		T _j	125	°C	
Storage temperature range		T _{stq}	- 65 to + 150	°C	

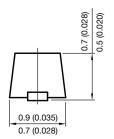
ELECTRICAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)						
PARAMETER	TEST CONDITION	SYMBOL	MIN.	TYP.	MAX.	UNIT
Reserve breakdown voltage	$I_R = 10 \mu A \text{ (pulsed)}$	V _(BR)	70			V
Leakage current	$V_R = 50 \text{ V}, t_p < 300 \mu\text{s}$	I _R		20	100	nA
Forward voltage	$t_p < 300 \ \mu s, \ I_F = 1.0 \ mA$	V _F			410	mV
Forward voltage	$t_p < 300 \ \mu s, \ I_F = 15 \ mA$	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 mA, I_R = 10 mA, i_R = 1 mA, R_L = 100 Ω	t _{rr}			5	ns

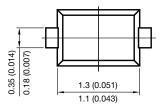


Vishay Semiconductors

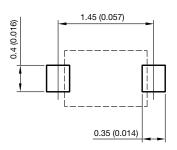
PACKAGE DIMENSIONS in millimeters (inches): SOD-523







foot print recommendation:



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

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Vishay

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