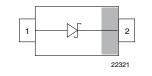
Vishay Semiconductors



www.vishay.com

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

- This diode features very low turn-on voltage and fast switching
- This device is protected by a PN junction guard ring against excessive voltage, such as electrostatic discharges
- Space saving SOD-523 package
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912



COMPLIANT GREEN (5-2008)

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		Тj	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	$I_R = 10 \ \mu A$ (pulsed)	V _(BR)	70			V
Leakage current	$V_{R} = 50 \text{ V}, t_{p} < 300 \ \mu s$	I _R		20	100	nA
Forward voltage	t _p < 300 μs, I _F = 1.0 mA	V _F			410	mV
Forward voltage	t _p < 300 μs, I _F = 15 mA	V _F			1000	mV
Diode capacitance	V _R = 0 V, f = 1 MHz	CD		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

Rev. 1.1, 21-Jan-13

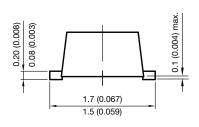
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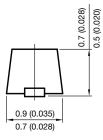
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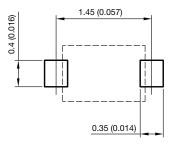
PACKAGE DIMENSIONS in millimeters (inches): SOD-523





(FL0:0) 90 1.3 (0.051) 1.1 (0.043)

foot print recommendation:



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