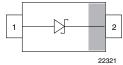


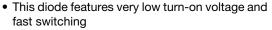
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Small Signal Schottky Diode

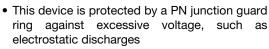




FEATURES









• Space saving SOD-523 package

• Material categorization: For definitions of compliance please see 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	

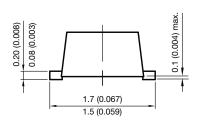
THERMAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)					
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT	
Thermal resistance junction to ambient air		R _{thJA}	680	K/W	
Junction temperature		T _j	125	°C	
Storage temperature range		T _{stq}	- 65 to + 150	°C	

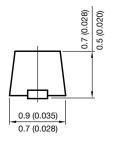
ELECTRICAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)						
PARAMETER	TEST CONDITION	SYMBOL	MIN.	TYP.	MAX.	UNIT
Reserve breakdown voltage	$I_R = 10 \mu A \text{ (pulsed)}$	V _(BR)	70			V
Leakage current	$V_R = 50 \text{ V}, t_p < 300 \mu\text{s}$	I _R		20	100	nA
Forward voltage	$t_p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

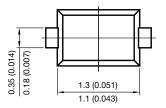


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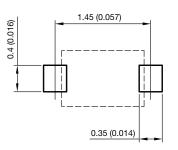
PACKAGE DIMENSIONS in millimeters (inches): SOD-523







foot print recommendation:



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

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