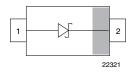


Vishay Semiconductors

Small Signal Schottky Diode





DESIGN SUPPORT TOOLS click logo to get started



MECHANICAL DATA

Case: SOD-523

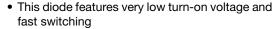
Weight: approx. 1.4 mg

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

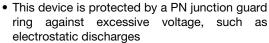
260 °C/10 s at terminals Packaging codes/options:

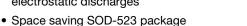
08/3K per 7" reel (8 mm tape), 15K/box

FEATURES









ROHS
COMPLIANT
HALOGEN
FREE
GREEN

(5-2008)

 Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

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	

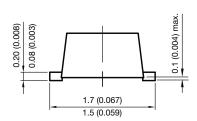
THERMAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)					
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT	
Thermal resistance junction to ambient air		R _{thJA}	680	K/W	
Junction temperature		Tj	125	°C	
Storage temperature range		T _{stg}	-65 to +150	°C	

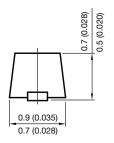
ELECTRICAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)						
PARAMETER	TEST CONDITION	SYMBOL	MIN.	TYP.	MAX.	UNIT
Reserve breakdown voltage	$I_R = 10 \mu A \text{ (pulsed)}$	V _(BR)	70			V
Leakage current	$V_R = 50 \text{ V}, t_p < 300 \mu\text{s}$	I _R		20	100	nA
Forward voltage	$t_p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

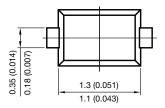


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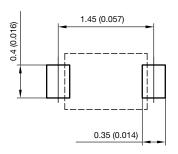
PACKAGE DIMENSIONS in millimeters (inches): SOD-523







foot print recommendation:



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

16864



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