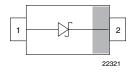


Vishay Semiconductors

Small Signal Schottky Diode





FEATURES

 This diode features very low turn-on voltage and fast switching





RoHS COMPLIANT

<u>(5-2008)</u>

 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	
BAS581-02V-V-G	BAS581-02V-V-G-08	Single diode	. Z	Tape and reel	

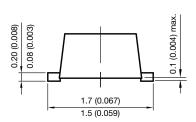
ABSOLUTE MAXIMUM RATINGS (T _{amb} = 25 °C, unless otherwise specified)					
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT	
Repetitive peak reserve voltage = working peak reserve voltage		V _{RRM}	40	V	
Forward continuous current		I _F	30	mA	
Surge forward current		I _{FSM}	200	mA	

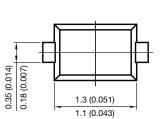
THERMAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)						
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT		
Thermal resistance junction to ambient air		R _{thJA}	680	K/W		
Junction temperature		Tj	125	°C		
Storage temperature range		T _{stg}	- 65 to + 150	°C		

ELECTRICAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)						
PARAMETER	TEST CONDITION	SYMBOL	MIN.	TYP.	MAX.	UNIT
Reserve breakdown voltage	I _R = 100 μA	V _(BR)	40			V
Leakage current	$V_R = 30 \text{ V}$	I _R			0.5	μΑ
Forward voltage	I _F = 1 mA	V_{F}			370	mV
Diode capacitance	V _R = 1 V, f = 1 MHz	C _D			2	pF

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PACKAGE DIMENSIONS in millimeters (inches): SOD-523

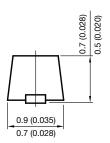




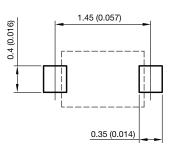
Document no.: S8-V-3880.02-001 (4)

Rev. h - Date: 13. Oct. 2010

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foot print recommendation:





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