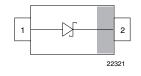


Vishay Semiconductors

Small Signal Schottky Diode





FEATURES

- This diode features very low turn-on voltage and fast switching
- Space saving SOD-523 package
- Material categorization:
 For definitions of compliance please see
 www.vishay.com/doc?99912





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COMPLIANT
HALOGEN
FREE
GREEN

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

PARTS TABLE					
PART	ORDERING CODE	CIRCUIT CONFIGURATION	TYPE MARKING	REMARKS	
BAS581-02V-V-G	BAS581-02V-V-G-08	Single	₌Z	Tape and reel	

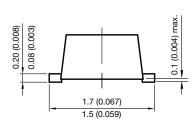
ABSOLUTE MAXIMUM RATINGS (T _{amb} = 25 °C, unless otherwise specified)					
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT	
Repetitive peak reserve voltage = working peak reserve voltage		V _{RRM}	40	V	
Forward continuous current		I _F	30	mA	
Surge forward current		I _{FSM}	200	mA	

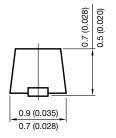
THERMAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)						
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT		
Thermal resistance junction to ambient air		R _{thJA}	680	K/W		
Junction temperature		T _j	125	°C		
Storage temperature range		T _{stg}	-65 to +150	°C		

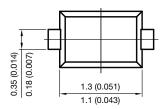
ELECTRICAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)						
PARAMETER	TEST CONDITION	SYMBOL	MIN.	TYP.	MAX.	UNIT
Reserve breakdown voltage	I _R = 100 μA	V _(BR)	40			V
Leakage current	V _R = 30 V	I _R			0.5	μA
Forward voltage	I _F = 1 mA	V _F			370	mV
Diode capacitance	$V_R = 1 V,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

Vishay Semiconductors

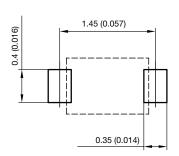
PACKAGE DIMENSIONS in millimeters (inches): SOD-523







foot print recommendation:



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

16864



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