

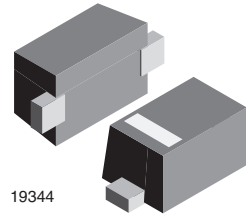
Small Signal Schottky Diode

Features

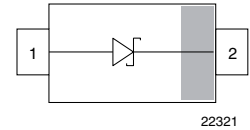
- This diode features very low turn-on voltage and fast switching
- Space saving SOD-523 package
- Compliant to RoHS Directive 2002/95/EC and in accordance to WEEE 2002/96/EC



RoHS
COMPLIANT
GREEN
(5-2008)**



19344



22321

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	Type marking	Remarks
BAS581-02V-V-G	BAS581-02V-V-G-08	.Z	Tape and reel

Absolute Maximum Ratings

$T_{amb} = 25\text{ °C}$, unless otherwise specified

Parameter	Test condition	Symbol	Value	Unit
Repetitive peak reverse voltage = working peak reverse voltage		V_{RRM}	40	V
Forward continuous current		I_F	30	mA
Surge forward current		I_{FSM}	200	mA

Thermal Characteristics

$T_{amb} = 25\text{ °C}$, 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

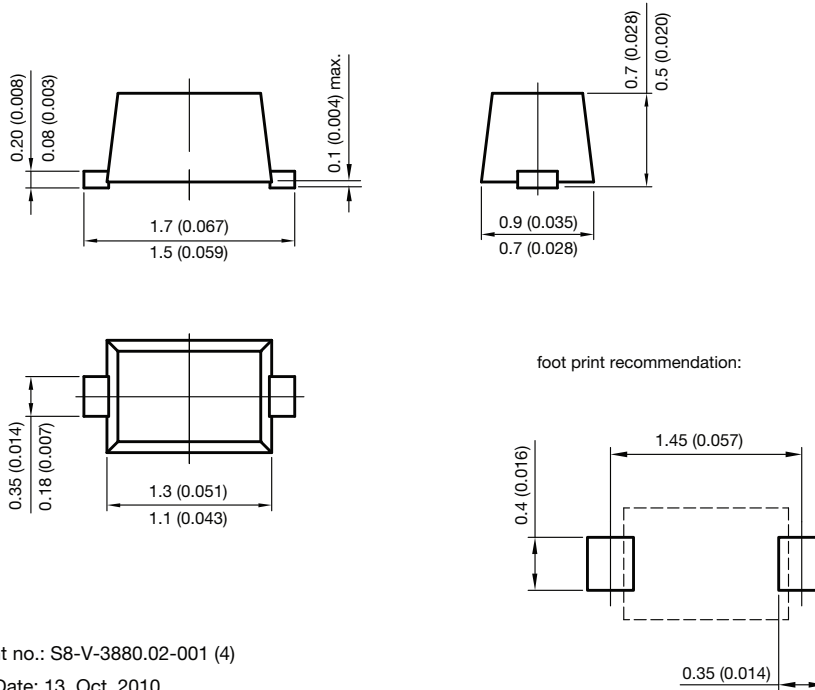
** Please see document "Vishay Material Category Policy": www.vishay.com/doc?99902

Electrical Characteristics

$T_{amb} = 25\text{ }^{\circ}\text{C}$, unless otherwise specified

Parameter	Test condition	Symbol	Min.	Typ.	Max.	Unit
Reverse breakdown voltage	$I_r = 100\text{ }\mu\text{A}$	$V_{(BR)}$	40			V
Leakage current	$V_R = 30\text{ V}$	I_r			0.5	μA
Forward voltage	$I_F = 1\text{ mA}$	V_F			370	mV
Diode capacitance	$V_R = 1\text{ V}$, $f = 1\text{ MHz}$	C_D			2	pF

Package Dimensions in millimeters (inches): SOD-523



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