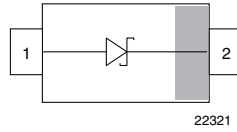


Small Signal Schottky Diode



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



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 ($T_{amb} = 25\text{ °C}$, 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)

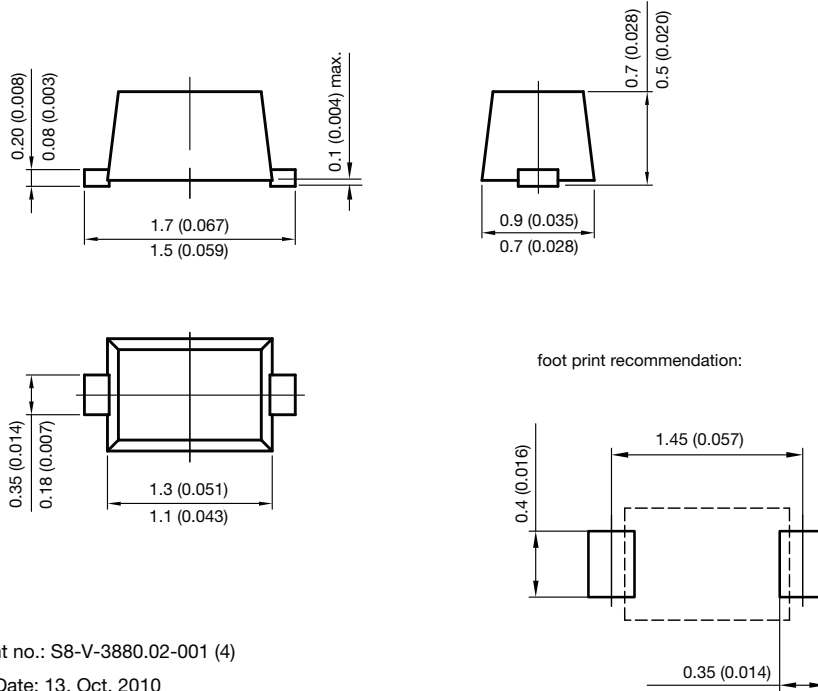
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT
Thermal resistance junction to ambient air		R_{thJA}	680	K/W
Junction temperature		T_j	125	°C
Storage temperature range		T_{stg}	-65 to +150	°C

ELECTRICAL CHARACTERISTICS ($T_{amb} = 25\text{ °C}$, 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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