

Vishay Semiconductors

Small Signal Switching Diode

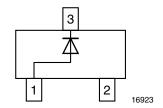
Features

- Silicon Epitaxial Planar Diode
- Fast switching diode in case SOT-23, especially suited for automatic insertion.
- · AEC-Q101 qualified
- Compliant to RoHS directive 2002/95/EC and in accordance to WEEE 2002/96/EC









Mechanical Data

Case: SOT-23

Weight: approx. 8.8 mg

Packaging codes/options:

GS18/10 k per 13" reel (8 mm tape), 10 k/box GS08/3 k per 7" reel (8 mm tape), 15 k/box

Parts Table

Part	Ordering code	Marking	Remarks	
MMBD914-V	MMBD914-V-GS18 or MMBD914-V-GS08	5D	Tape and Reel	

Absolute Maximum Ratings

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

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Parameter	Test condition	Symbol	Value	Unit	
Peak reverse voltage		V _{RM}	100	V	
Maximum average forward rectified current		I _{F(AV)}	200	mA	
Maximum power dissipation	T _{amb} = 25 °C	P _{tot}	225	mW	

Thermal Characteristics

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

Parameter	Test condition	Symbol	Value	Unit
Maximum junction temperature		T _j	150	°C
Storage temperature range		T _{stg}	- 55 to +150	°C

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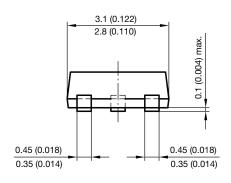


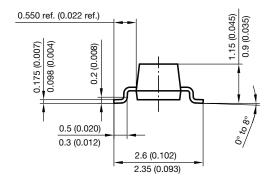
Electrical Characteristics

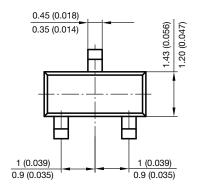
 T_{amb} = 25 °C, unless otherwise specified

Parameter	Test condition	Symbol	Min.	Тур.	Max.	Unit
Forward voltage drop	I _F = 10 mA	V _F			1	V
Reverse current	V _R = 20 V	I _R			25	nA
	V _R = 75 V	I _R			5	μΑ
Reverse recovery time	$I_F = I_R = 10 \text{ mA}, V_R = 6 \text{ V},$ $R_L = 100 \Omega, \text{ to } I_{rr} = 1 \text{ mA}$	t _{rr}			4	ns
Diode capacitance	V _R = 0, f = 1 MHz	C _D			4	pF

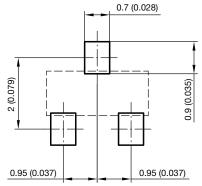
Package Dimensions in millimeters (inches): SOT-23







Foot print recommendation:



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