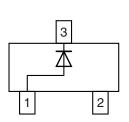
MMBD914-G



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
- Base P/N-G3 green, commercial grade

 Material categorization: For definitions of compliance please see <u>www.vishav.com/doc?99912</u>



RoHS COMPLIANT HALOGEN FREE GREEN (5-2008)

MECHANICAL DATA

Case: SOT-23

Weight: approx. 8.1 mg

Packaging codes/options:

18/10K per 13" reel (8 mm tape), 10K/box

08/3K per 7" reel (8 mm tape), 15K/box

PARTS TABLE					
PART	ORDERING CODE	INTERNAL CONSTRUCTION	TYPE MARKING	REMARKS	
MMBD914-G	MMBD914-G3-08 or MMBD914-G3-18	Single diode	5DG	Tape and reel	

ABSOLUTE MAXIMUM RATINGS (T _{amb} = 25 °C, unless otherwise specified)				
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		Тj	150	°C	
Storage temperature range		T _{stg}	- 55 to + 150	°C	
Operating temperature range		T _{op}	- 55 to + 150	°C	

ELECTRICAL CHARACTERISTICS (T_{amb} = 25 °C, unless otherwise specified)						
PARAMETER	TEST CONDITION	SYMBOL	MIN.	TYP.	MAX.	UNIT
Forward voltage drop	I _F = 10 mA	V _F			1	V
Reverse current	V _R = 20 V	I _R			25	nA
Reverse current	V _R = 75 V	I _R			5	μA
Reverse recovery time	$I_{F} = 10 \text{ mA to } i_{R} = 1 \text{ mA},$ $V_{R} = 6 \text{ V}, \text{ R}_{L} = 100 \Omega$	t _{rr}			4	ns
Diode capacitance	$V_R = 0 V$, f = 1 MHz	CD			4	pF

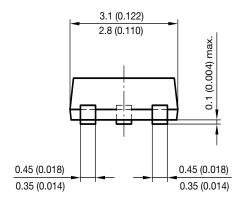
Rev. 1.0, 15-May-13

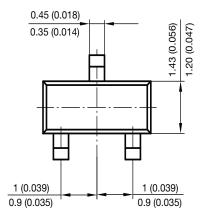
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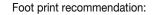
Vishay Semiconductors

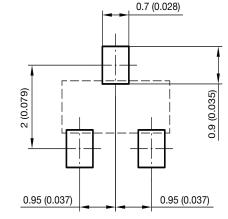
PACKAGE DIMENSIONS in millimeters (inches): SOT-23





0.550 ref. (0.022 ref.) (0.000) (0.00





Document no.: 6.541-5014.01-4 Rev. 8 - Date: 23.Sept.2009 17418



Vishay

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