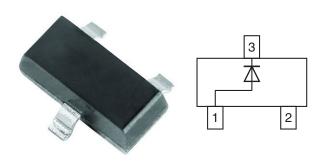


Vishay Semiconductors

Small Signal Switching Diode



FEATURES

- Silicon epitaxial planar diode
- Fast switching diode in case SOT-23, especially suited for automatic insertion
- AEC-Q101 qualified available (part number on request)
- Base P/N-G3 green, commercial grade
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912





ROHS COMPLIANT HALOGEN

FREE GREEN (5-2008)

DESIGN SUPPORT TOOLS click logo to get started



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	CIRCUIT CONFIGURATION	TYPE MARKING	REMARKS	
MMBD914-G	MMBD914-G3-08 or MMBD914-G3-18	Single	5DG	Tape and reel	

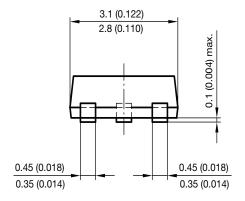
ABSOLUTE MAXIMUM RATINGS (T _{amb} = 25 °C, unless otherwise specified)					
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT	
Peak reverse voltage		V _{RM}	100	V	
Maximum average forward rectified current		I _{F(AV)}	200	mA	
Maximum power dissipation	T _{amb} = 25 °C	P _{tot}	225	mW	

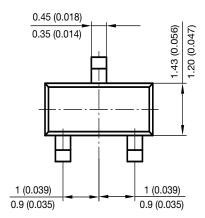
THERMAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)					
PARAMETER	TEST CONDITION SYMBOL		VALUE	UNIT	
Maximum junction temperature		Tj	150	°C	
Storage temperature range		T _{stg}	-55 to +150	°C	
Operating temperature range		T _{op}	-55 to +150	°C	

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
Develop augment	V _R = 20 V	I _R			25	nA
Reverse current	V _R = 75 V	I _R			5	μΑ
Reverse recovery time	I_F = 10 mA to i_R = 1 mA, V_R = 6 V, R_L = 100 Ω	t _{rr}			4	ns
Diode capacitance	V _R = 0 V, f = 1 MHz	C _D			4	pF

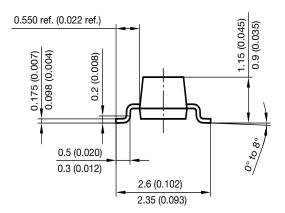
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PACKAGE DIMENSIONS in millimeters (inches): SOT-23

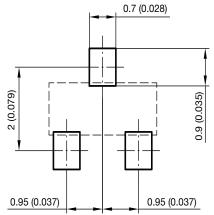




Document no.: 6.541-5014.01-4 Rev. 8 - Date: 23.Sept.2009 17418



Foot print recommendation:



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Vishay

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